U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-252 518

OFFICE OF RESEARCH AND DEVELOPMENT (ORD) PUBLICATIONS SUMMARY

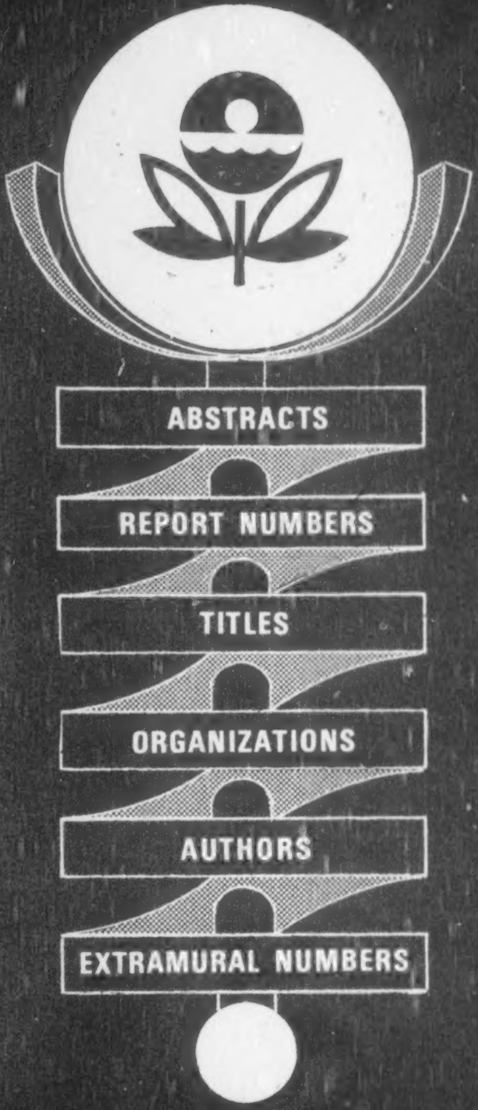
Environmental Protection Agency

December 1975

138178

EPA-600/9-75-001d

PB 252 518


ABSTRACTS
REPORT NUMBERS
TITLES
ORGANIZATIONS
AUTHORS
EXTRAMURAL NUMBERS

ORD PUBLICATIONS SUMMARY

DECEMBER 1975

U. S. ENVIRONMENTAL PROTECTION AGENCY
Office of Research and Development
Washington, D.C. 20460

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

HOW TO ORDER

DO NOT ORDER FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY

After each bibliographic entry, one or a combination of several of the following source notations is given. (When several sources are given, any one may be used.)

ORDER FROM:
GPO-EP1.23/3:600/5-74-002 $0.70

GPO $1.25

NTIS-PB 211 193

NTIS-PB 210 175 $3.00

At Printer; Pending; PB No. Pending; etc.

GPO =
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

Use the **order number** indicated; if none appears, use the report number. Copies may be ordered from the Superintendent Gof Documents, U.S. Government Printing Office, GWashington, DC 20402.

NTIS =
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22151

Use **PB order number**. A microfiche of each report listed with a PB number is available for $2.25. When a price is given, a paper copy is available.

Other = When the information indicates "Pending," "At Printer," etc., the report is not yet available. When a name and telephone number is given, contact the individual for further information.

DO NOT ORDER FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.
EPA-600/9-75-001d

2.

3. RECIPIENT'S ACCESSION NO.
PB-252 518

4. TITLE AND SUBTITLE
ORD PUBLICATIONS SUMMARY
December 1975

5. REPORT DATE
December 1975

6. PERFORMING ORGANIZATION CODE

7. AUTHOR(S)
Technical Information Division

8. PERFORMING ORGANIZATION REPORT NO.

9. PERFORMING ORGANIZATION NAME AND ADDRESS
U.S. Environmental Protection Agency
Office of Research & Development
Washington, D.C. 20460

10. PROGRAM ELEMENT NO.
1RW103

11. CONTRACT/GRANT NO.
In-house

12. SPONSORING AGENCY NAME AND ADDRESS
Same as above

13. TYPE OF REPORT AND PERIOD COVERED

14. SPONSORING AGENCY CODE
EPA-ORD

15. SUPPLEMENTARY NOTES

16. ABSTRACT

The quarterly publication provides

This Summary is a current listing of the Office of Research & Development's final reports on in-house, grant, contract, and interagency projects. A New Report Abstracts Section is included in the Summary to provide brief abstracts of recently printed reports, as well as indices by Title, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Bibliographies Technical reports Research projects Corporate authors Information retrieval Library science Abstracts		5 B

PRICES SUBJECT TO CHANGE

18. DISTRIBUTION STATEMENT AVAILABLE TO THE PUBLIC	19. SECURITY CLASS *(This Report)* UNCLASSIFIED	21. NO. OF PAGES 164
	20. SECURITY CLASS *(This page)* UNCLASSIFIED	22. PRICE 6.75-2.25

EPA Form 2220-1 (9-73)

EPA-600/9-75-001d
December 1975

ORD PUBLICATIONS SUMMARY

by

TECHNICAL INFORMATION DIVISION
Office of Monitoring & Technical Support

U.S. Environmental Protection Agency
Office of Research and Development
Washington, D.C. 20460

ATTENTION

On June 29, 1975, the Office of Research and Development (ORD) was officiallyy reorganized. One of the major impacts of this reorganization was to eliminate the former National Environmental Research Center (NERC) management structure for field operation and establish 15 individual laboratories which report directly to headquarters. As a result, the report number prefixes formerly associated with the NERC's have been replaced by one prefix (600) which represents all of ORD technical reports. Any questions arising from this report number change may be directed to the Technical Information Staff, Cincinnati, Ohio 45268, telephone 513/684-7281.

SEE INSIDE OF FRONT COVER FOR "HOW TO ORDER" REPORTS

FOREWORD

This is the fourth issue of the Office of Research and Development's (ORD's) quarterly **ORD PUBLICATIONS SUMMARY**. This **Summary** is intended to provide a current listing (since July 1973) of ORD's final reports on in-house, grant, contract, and interagency projects. A New Report Abstracts Section is included in the **Summary** to provide brief abstracts of recently printed reports, as well as indices by Title, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. Comments on how this **Summary** would serve the reader more effectively would be appreciated.

Wilson K. Talley
Assistant Administrator for
Research and Development

CONTENTS

Page

How to Order . . . . .inside front cover

Foreword iii

Series Description v

Users' Guide vi

New Report Abstracts Section 1

Bibliographic Section

- 600 Reports 18
- 650 Reports 30
- 660 Reports 52
- 660 Reports 66
- 680 Reports 85

Title Index 87

Performing Organization Index 110

Personal Author Index 130

Grant, Contract, Interagency Agreement Number Index 145

SERIES DESCRIPTION

The U.S. Environmental Protection Agency (EPA) was formed in late 1970 from programs in several executive agencies, i.e., the Department of Health, Education, and Welfare (air pollution, solid waste, radiation, water hygiene, and noise), the Department of the Interior (water pollution), and the Department of Agriculture (pesticide regulation).

In July 1972, EPA's Office of Research and Monitoring (now Office of Research and Development, ORD) established an office-wide series of designations within which each research report would be published. The series can be used to describe the general thrust of EPA research and development and also to aid in identifying the use for each report. The present numbering system and cover color for each report is keyed to this Series Description.

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

Assigned to Series 1 are projects and studies relating to the tolerances of man for unhealthful substances or conditions, generally assessed from a medical viewpoint. In addition to toxicology and other medical specialties, study areas include physiological or psychological studies, and biomedical instrumentation and health research techniques utilizing animals—but always with intended application to human health protection.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

Within Series 2 is research performed to develop and demonstrate instrumentation, equipment, and methodology to repair or prevent environmental degradation from point and nonpoint sources of pollution. This work provides the new or improved technology necessary to control and treat pollution sources so that environmental quality standards can be met.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

In Series 3 are grouped the investigations on pollution effects on plant and animal species and on materials. Problems are assessed for their long- and short-term influences and studies include formation, transport, and pathway studies to determine the fate of pollutants and their effects. This work provides the basis for setting standards to minimize undesirable changes in living organisms in the aquatic, terrestrial, and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (grey covers)

Research conducted to develop new or improved methods and instrumentation for identifying and quantifying environmental pollutants is found in Series 4. Also included are studies to determine the ambient concentrations of pollutants in the environment, or the variance of pollutants as a function of time or meteorological factors, or both.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

Included in Series 5 is research devoted to the socioeconomic impact of environmental problems, i.e., recycling and other recovery operations whose emphasis is on monetary incentives and nonscientific realms of legal systems, cultural values, and business systems. Because the interdisciplinary scope of system evaluations and environmental management, these reports are included in Series 5.

SERIES 6 – SCIENTIFIC AND TECHNICAL ASSESSMENT REPORTS (STAR) (dark blue covers)

In Series 6 are assessments of the available scientific and technical knowledge on major pollutants that would be helpful in regulatory decision making or assessments of a major area of completed study. The series is used to present objective evaluations of existing knowledge— evaluations that point out the extent to which it is definitive, the validity of the data on which it is based, and the uncertainties and gaps that may exist. (Most of the reports are multimedia in scope and focus on single media only to the extent warranted.)

SERIES 9 – MISCELLANEOUS (covers of various designs)

Series 9 is used for all reports issued by ORD not applicable to one of the series described above.

USERS' GUIDE

This volume contains an abstract section, a bibliographic section, and six indices. Within each index, reports are cross-referenced to the Bibliographic Section by report number. The bibliographic section and indices are cumulative so you need only refer to the most recent issue for ordering information.

NEW REPORT ABSTRACTS SECTION

This section contains a brief abstract of each recently printed report. An abstract will appear in only one issue so if you need copies of abstracts for reference purposes, you must retain each issue of the **Summary**. If no source is shown in the Bibliographic Section, the report is not yet available. Future issues of the **Summary** will note those reports for which an abstract has been published and indicate the issue in which the abstract appeared; e.g., —Abstracted 600/9–74–001a—.

BIBLIOGRAPHIC SECTION

In the Bibliographic Section is a numerical listing of reports published since July 1973. The source of each report follows the bibliographic entry, and how to order instructions are given on the inside front cover.

TITLE INDEX

All reports are listed alphabetically by title; "A," "An," and "The" have been dropped from the beginnings of titles.

PERFORMING ORGANIZATION INDEX

This is an alphabetical listing of the organizations which conducted the research reported on in these reports. For grants or contracts, the organization is the grantee or contractor; for in-house reports, the organization is the EPA laboratory or office.

PERSONAL AUTHOR INDEX

The Personal Author Index lists alphabetically all authors of reports contained in the Bibliographic Section.

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER INDEX

This index contains a listing of ORD Contract, Grant, and Interagency Agreement numbers for which a final report has been produced. For each number listed the applicable report number is cross-referenced.

NEW REPORT ABSTRACTS SECTION

600/1–75–003 PE 1CA046 ROAP/TASK 21 APX 08 IN-HOUSE PROJECT

Virus-In-Water Study of Finished Water from Six Communities BY E. W. Akin, D. A. Brashear, and N. A. Clarke, Health Effects Research Laboratory, EPA Cincinnati, OH

Fifty-six finished water study samples up to 1900 liters were collected and successfully processed for virus isolations from six communities. Eight additional samples were inoculated with low levels of virus as a check (positive control) on the sensitivity of our procedure. Six of the eight positive control viruses were recovered. Two virus serotypes were not recovered at an input level of one infectious unit per 19 liters. No viruses were isolated from the study samples. Bacteriological tests with experimental large volume procedures showed that coliform bacteria were present in 25 of 71 samples. The coliform densities were very low and in all cases were within the limits of the 1962 USPHS Drinking Water Standards. EPA CONTACT: Akin, E. W. 513–684–8392

600/1–75–005 PE 1AA001 CONTRACT NO. 68–02–0542

Vapor-Phase Organic Pollutants – Volatile Hydrocarbons and Oxidation Products National Academy of Sciences Washington, DC

This report concerns vapor-phase substances likely to be produced as community pollutants in sufficient amounts to affect health and wellbeing. Sources of vapor-phase organic pollutants are listed, including collection and sampling techniques and analytical methods. Possible mechanisms of formation of oxygenated organic hydrocarbon compounds in the atmosphere and of atmospheric reactions of oxides of nitrogen and sulfur are studied. Toxicologic, pathophysiologic, and epidemiologic information on vapor-phase organic pollutants is reviewed, their metabolism, and their effects on the total environment. Special attention is given to oxidized compounds, formaldehyde, ozone, and benzene. The report stresses the importance of oxidation reactions in the vaporphase and the human health hazards produced from the more or less transient products of oxidation. The review of metabolism indicates that, although vapor-phase hydrocarbon pollutants are modified usually by enzymatic oxidation within mammalian systems from nonpolar to polar compounds (which are then excreted by the kidney), this sometimes occurs with the production of toxic intermediates. These reactions occur mostly in the liver and to a lesser extent in the kidney, intestine, and lung. EPA CONTACT: Hueter, F. G. 919–549–2266

600/2–75–007 PE 1BB042 ROAP/TASK 21 BEU 01 GRANT NO. 802310

Impact of Hydrologic Modifications on Water Quality BY J. Bhutani, R. Holberger, W. E. Jacobsen, P. Spewak, and D. B. Truett, Mitre Corporation McLean, VA

This report describes the scope and magnitude of water pollution problems caused by hydrologic modifications (dams, impoundments, channelization, inwater construction, out-of-water construction, and dredging). Types of pollutants released by each class of hydrologic modification are identified, and quantitative estimates are made of the amount of the major pollutant—sediment—that enters the Nation's surface waters as a result of highway and urban construction. Methods for controlling the release of pollutants from hydrologic modification activities are described, and the effectiveness of sediment control measures is estimated. Two "loading functions" are developed for predicting the quantities of sediment released from construction operations of given magnitude and location. These functions are based on measurements of sediment yields & other parameters at 10 construction sites. The accuracy and limitations of the functions are analyzed. Measurement data from all classes of hydrologic modifications are reported in the 42 case studies of field projects summarized in the appendices of this report. EPA CONTACT: O'Bryan, D.

600/2–75–010 PE 1GB090 ROAP/TASK 21 AXV IN-HOUSE PROJECT

Assessment of the Federal Noise Research, Development, and Demonstration Activities: FY 73 – FY 75 BY E. E. Berkau, S. R. Cordle, F. D. Hart, and G. R. Simon, Noise Technology Staff, EPA Washington, DC

The Federal noise research, development, and demonstration (RD&D) activities during fiscal years 1973 through 1975 are examined to determine the contribution of these efforts to the control of environmental noise and to the understanding of the effects of noise. An analysis is made of the research activities in the areas of noise effects, aircraft noise, surface vehicle noise, and machinery noise. The principal sources of information used are the EPA interagency noise research panels reports on the Federal noise RD&D activities during the FY 73–75 time period and the major noise source candidates which have been identified or are under consideration by the EPA. Federal noise RD&D activities are identified which have supported the development and enforcement of existing or proposed standards and regulations and/or could support future standards and regulations, particularly for the EPA major noise source candidates. Federal research activities which could identify the limits to noise control technology are also identified. Specific and general conclusions are made concerning the adequacy of the current Federal noise RD&D activities to support EPA regulatory activities.

NEW REPORT ABSTRACTS SECTION

600/2-75-012 PE 1AB013 ROAP/TASK 21 ACX 132 CONTRACT NO. 68-02-0636

Continuous Measurement of Gas Composition From Stationary Sources BY E. Brooks, D. Luciani, C. Flegal, L. Harnett, M. Kolpin, and R. Williams, TRW Systems Group Redondo Beach, CA

The report gives results of a program to develop and evaluate methods for the continuous measurement of total gaseous emissions from stationary sources, specifically in large or complex ducts where total flow processing techniques are not practical. It is specifically concerned with measuring mean gas concentrations in rectangular ducts. Work consisted of a review of related programs and data, development of a computer program to assess stratification levels and evaluate sampling techniques, development and evaluation of point sampling methods for continuous monitoring, development of a multi-port continuous gas sampling probe, and field demonstration of hardware and techniques. Results showed that total gaseous emissions can be accurately monitored using as few as one flow sensor and one sampling probe, even in the presence of significant velocity and compositional stratification. It was shown for all data examined that good accuracy can be attained by taking a spatial concentration average (flow proportional sampling is not required). The field demonstration verified the acceptability of the proposed methodology. EPA CONTACT: Whelan, B.

600/2-75-016 PE 1AB015 ROAP/TASK 21 AUZ 15 CONTRACT NO. 68-02-0204

Incinerator Overfire Mixing Demonstration BY T. J. Lamb, Arthur D. Little, Inc. Cambridge, MA

The report gives test data and conclusions from a testing program of an existing municipal incinerator. Measurements were made in the furnace breech, directly over the refuse bed, and in the furnace stack. Generalized models were developed to describe bed burning, furnace flow behavior, and overfire mixing phenomena. Design guidelines were developed for operating variables, such as underfire air distribution and feed rate, and design features, such as mixing jet placement and furnace configuration. Jets were shown to be effective in reducing combustible emissions through temperature control. They were only marginally effective in inducing increased turbulence within the furnace. Analysis of test results and rationale for the conclusions drawn are discussed thoroughly. EPA CONTACT: Kilgore, J.

600/2-75-017 PE 1AB012 ROAP/TASK 21 ADJ 29 CONTRACT NO. 68-02-1303

Effect of Chemical Composition on the Surface Resistivity of Fly Ash BY R. E. Bickelhaupt, Southern Research Institute Birmingham, AL

The report gives results of a study of the effect of chemical composition on the surface resistivity of fly ash. The resistivity of a group of well characterized fly ashes was determined. Resistivity data were taken between 60 and 250 C in an environment of air containing approximately 9 vol. % water. Chemical transference experiments were conducted for two ashes with substantially different chemical compositions. Chemical analyses of the transference specimens revealed a pronounced migration of alkali metal ions toward the negative electrode: the surface resistivity was inversely proportional to the concentration of these ions. Ion concentration influenced the participation of potassium in the current conduction process. Surface resistivity is sensitive to the chemical composition of fly ash because the alkali metals serve as charge carriers. The conduction mechanism is probably analogous to that of glass. This viewpoint is compatible with the usual empirical observations regarding the effect of certain parameters on resistivity; for example, the interaction between ash and the environment. EPA CONTACT: Sparks, L.

600/2-75-027 PE 1BB034 ROAP/TASK 21 ASY 34 CONTRACT NO. 68-03-0426

Sewer Flow Measurement – A State-of-the Art Assessment BY P. E. Shelley, and G. A. Kirkpatrick, EG&G, Inc. Rockville, MD

A brief review of the characteristics of storm and combined sewer flows is given, followed by a general discussion of the need for such flow measurement, the types of flow data required, and the time element in flow data. A discussion of desirable flow measuring equipment characteristics presents both equipment requirements as well as desirable features and includes an equipment evaluation sheet that can be used for a particular application. A compendium of over 70 different generic types of primary flow measurement devices, arranged according to the fundamental physical principles involved, is presented along with evaluations as to their suitability for measurement of storm or combined sewer flows. To illustrate the implementation of physical principles, a number of commercially-available devices for flow measurement are briefly described. A review of project experience in flow measurement is presented along with a summary of current and on-going research efforts. Some thoughts on future areas of research and development are also given.

NEW REPORT ABSTRACTS SECTION

600/2–75–023 PE 1BB036 ROAP/TASK 21 AZO 15 GRANT NO. 12010 GUG

Electrolytic Treatment of Job Shop Metal Finishing Wastewater BY B. E. Warner, New England Plating Company, Inc. Worcester, MA

Full scale in-plant production studies demonstrated the reliability and economics of electrolytic cells containing beds of conductive particles between cathodes and anodes for reduction of hexavalent chromium and oxidation of cyanide in plating rinse water. The heavy metals are subsequently removed from the waste water by alkali precipitation. Seventy-five liter/min. (20 GPM) sized cells were employed for chromium and cyanide rinses. Chromium concentrations to 250 mg/liter and cyanide concentrations to 150 mg/liter were processed. Data were obtained with parallel equipment using chemical treatment for cost comparison. At low chromium concentrations (less than 25 mg/liter), chemical reduction was more economical. At higher concentrations (150 mg.liter), electrolytic reduction became the more economical process. In cyanide oxidation, the electrochemical process reduced direct costs associated with the chlorination. Waste treatment costs, capital and operating, for the job shop are provided with an assessment of total costs on the price of services provided. Water conservation techniques are described. Experiences with tube settling equipment for removal of suspended solids and centrifuge for sludge concentration is provided. EPA CONTACT: Ciancia, J. 201–548–3410

600/2–75–033 PE 1BB034 GRANT NO. 802781

Treatment of Combined Sewer Overflows by Dissolved Air Flotation BY T. Bursztynsky, D. Feuerstein, W. Maddaus, and C. Huang, Engineering Science, Inc. Berkeley, CA

This program investigated the use of dissolved air flotation for the treatment of combined sewer overflows. As a result of this program a 24-mgd prototype facility was constructed and evaluated. The most recent study phase demonstrated the performance characteristics of the prototype Baker Street dissolved air flotation facility for the treatment of combined sewer overflows under a broad range of operating conditions. Summary data from initial studies in this program using a pilot plant and the prototype facility with dry-weather flow are compared with the recent results. Improvements are suggested in the design and operation of dissolved flotation facilities. Under several specific test conditions the Baker Street facility effected reductions in combined sewage constituents which resulted in an effluent quality meeting some local discharge requirements. Difficulties were encountered with alum floc carry-over into the effluent. Wastewater pollutant removals were highest—51 percent suspended solids from an influent of 99.5 mg/1 and 82 percent BOD from an influent of 32.1 mg/1, measured in Test No. 8—at surface loading rates of 145 cubic meter/(m)2 (day) (3,580 gal/square feet (day), an alum dosage of 75 mg/1, and a minimum air to solids ratio of 0.05 kg air/kg solids. Specific design modifications are recommended for investigation to determine their effect on system performance of the Baker Street facility. The construction cost for the 24-mgd Baker Street facility with architectural treatment was $2,518,000, adjusted to an ENR index of 2240. Annual O & M costs are calculated to be $17,200 EPA CONTACT: Cesareo, D. J. 201–548–3546

600/2–75–034 PE 1BB043 ROAP/TASK 21 ASE 27 CONTRACT NO. 68–01–0162

Trench Incorporation of Sewage Sludge in Marginal Agricultural Land BY J. M. Walker, W. D. Burge, R. L. Chaney, E. Epstein, and J. D. Menzies, U.S. Department of Agriculture Beltsville, MD

A trench method was tested for transporting and placing digested and limed raw (undigested) sewage sludges (8% and 20% solids) in trenches in study soil at loadings up to II50 dry tons/hectare (500 dry tons/acre) without odor problems or hazard of surface runoff. Field scale trenching was best achieved by digging the trenches on contour not more than 75 cm deep, 60 cm wide, and from 60 to 75 cm apart. The study indicated that the best sludge transport method would employ concrete mixer trucks. Trenches could then be filled directly from discharge chutes or indirectly with a peristaltic pump. A tracked trenching machine with a maneuverable rear-mounted digging wheel dug a new trench and simultaneously backfilled a parallel sludged trench. In 2 years, neither heavy metals nor pollution indicator organisms (coliform and salmonella) have moved more than about 30 cm from entrenched sludge into surrounding soil. Moderate amounts of nitrate nitrogen have moved into underdrainage water but not into the underground aquifier. The lime in the sludge reduced metal movement into soil and availability to crops and metal uptake was modest. Tested agricultural pactices included cross ripping, tilling, and cropping, with grasses recommended for the first year. Entrenchment appeared feasible for sludge disposal and improving marginal land. EPA CONTACT: Bishop, D. F. 513–684–8353

600/2–75–035 PE 1BB043 ROAP/TASK 21 ASD 17 CONTRACT NO. 68–03–0152

Aerobic-Stabilization of Waste Activated Sludge – An Experimental Investigation BY D. B. Cohen, and D. G. Fullerton, Metropolitan Denver Sewage Disposal District No. 1 Commerce City, CO FMC Corporation Englewood, CO

Metro Denver Sewage Disposal District No. I (Metro) in 1970 converted excess secondary aerators to aerobic digesters. The plant scale diffused air system was compared with a pilot scale open tank oxygen system using very fine bubble fixed and rotating diffusers. For the air system volatile suspended solids (VSS) reductions ranged between II.2% and 47.2%. A significant correlation was observed between VSS reduction and detention time-temperature factor. Cold shock eliminated nitrification for a five month period. When invertebrates, particularly rotifers, comprised a significant fraction of the biomass, digestion was maximal. The pollutant concentration in the supernatant from the aerobic digester averaged 10% of that from an anaerobic digester. For the oxygen batch tests, biodegradable VSS digestion rate coefficient k averaged 0.27. No correlation was observed between DO concentration and VSS reduction rates. The temperature of the oxygen digested biomass increased with increased loadings. At loadings greater than 2.25 kg VSS/cubic meter/day (0.14 lb VSS/cubic feet/day), oxygen performance was superior to the diffused air system. Loadings as high as 9.6 kg VSS/cubic feet/day (0.60 lb VSS/cubic feet/day) were successfully employed with the rotating diffuser oxygen system. To continue the aerobic digestion economic benefits of reduced sludge disposal costs, Metro is considering conversion of a 3,785 cubic meter (1 million gallon) sludge holding tank to an oxygen digester. EPA CONTACT: Smith Jr., J. E. 513–684–8267

NEW REPORT ABSTRACTS SECTION

600/2-75-038 PE 1BB043 ROAP/TASK 21 ASD 18 CONTRACT NO. 68-03-0334

Lime Use in Wastewater Treatment: Design and Cost Data BY E. De La Fuente, L. O. Britt, M. L. Spealman, R. J. Stenquist, and F. J. Zadick, Brown and Caldwell, Construction Engineers Walnut Creek, CA

This report presents design and cost information on lime use in wastewater treatment applications. It includes design and cost information on lime handling, liquid processing, solids generation and dewatering, lime recovery and ultimate ash disposal. The report takes a design manual approach so that the information presented has maximum usefulness to environmental engineers engaged in both the conceptual and detailed design of wastewater treatment plants. Design data on alternate sludge thickening and dewatering processess are presented with special emphasis on wet classification of calcium carbonate from unwanted materials and on maximizing the dewatering of wasted solids. Alternative recalcining techniques are assessed and problem areas identified. A relatively new technique for beneficiation of the recalcined product is presented. Approaches to heat recovery are presented that minimize the net energy requirements for recalcination and incineration. A computer program for computation of solids balances is included as a design aid and two case histories are presented which portray the cost of lime treatment, sludge processing and lime reclamation. EPA CONTACT: Smith Jr., J. E. 513-684-8267

600/2-75-039 PE 1BC611 GRANT NO. 17030 EBH

Improved Liquid-Solids Separation By An Aluminum Compound in Activated Sludge Treatment BY C. F. Lenhart, and J. W. Cagle, Greene County Sanitary Engineering Department Xenia, OH

Addition of sodium aluminate to a full scale (10,000 cubic meter/day) activated sludge facility greatly enhanced solids separation processes. Comparative data for periods with and without chemical dosing are provided. EPA CONTACT: Barth, E. F. 513-684-8240

600/2-75-043 PE 1DB064 ROAP/TASK 21 BFQ 14 GRANT NO. 801397

Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment BY F. G. Pohland, Georgia Institute of Technology Atlanta, GA

Results of an experimental system for study of landfill disposal of approximately 0.3 cubic meters (10 cubic feet) of domestic refuse are provided. The study evaluated not only traditional landfill decomposition as represented by single pass of water originating from rainfall but also recirculation of the collected leachate. Sewage sludge addition to the solid waste and pH control of the recirculated leachate were also evaluated. Biological and physical-chemical methods for treatment of leachates, especially those derived from the stabilized solid waste undergoing leachate recirculation were also evaluated. Analysis of about 3 years of data indicated that leachate recirculation was very beneficial in accelerating the removal of at least the readily available organics from the refuse and leachate. This rate of removal, accomplished over a period of months for the recirculated units as compared to the traditional, single pass unit, was further enhanced by the initial addition of sewage sludge and by pH control. The leachate treatment studies indicated that either aerobic or anaerobic biological processes successfully remove leachate organics and that the effluent residuals could be polished by activated carbon adsorption and/or ion exchange either separately or in combination. EPA CONTACT: Brunner, D. R. 513-684-4487

600/2-75-044 PE 1DB311 ROAP/TASK 21 BKV 08 CONTRACT NO. 5-03-3516

Summation of Conditions and Investigations for the Complete Combustion of Organic Pesticides BY B. T. Riley Jr., Independent Management Consultant on Environmental Affairs Cincinnati, OH

The disposal of various types of pesticides by incineration without significant insult to the environment is a major problem. This project summarizes the findings of several investigators, who tested the combustion efficiency of several pilot plant scale incinerators on several classes of pesticides. A brief discussion of a classification technique for pesticides is included, as well as a brief discussion of theoretical combustion requirements. EPA CONTACT: Carnes, R. A. 513-684-4487

600/2-75-045 PE 1AB013 ROAP/TASK 21 ADE 08 CONTRACT NO. 68-02-1320

Method for Evaluating SO_2 Abatement Strategies BY C. T. Chi, E. C. Eimutis, W. H. Hedley, M. V. Jones, R. Jones, and L. B. Mote, Monsanto Research Corporation Dayton, OH

The report describes a non-deterministic probabilistic method that can be used to evaluate sulfur oxides abatement alternatives. The method is not restricted to gas scrubbing models, but can also handle clean fuel substitution processes. The method utilizes a Monte Carlo simulation approach which can treat fully developed cost models and also those which encompass high level of uncertainty either in structure or in process parameters. The report presents impact assessment techniques which can be used to develop methodology for alternative future scenarios. A specific example, the Wellman-Allied process, is used to demonstrate the utility of simulation methodology. EPA CONTACT: Johnson, G. L. 919-549-2815

NEW REPORT ABSTRACTS SECTION

600/2-75-046 PE 1AB014 ROAP/TASK 21 BCC 12 CONTRACT NO. 68-02-1318

NO$_x$ Combustion Control Methods and Costs for Stationary Sources—Summary Study BY A. B. Shimizu, R. J. Schreiber, H. B. Mason, G. G. Poe, and S. B. Youngblood, Acurex Corporation Mountain View, CA

The report summarizes the technology, user experience, and cost for NO$_x$ control from stationary combustion sources. It characterizes significant sources by equipment type, fuel consumption, and annual mass emission of NO$_x$. It summarizes NO$_x$ control technology by combustion modification, fuel modification, flue gas treatment, and use of alternate processes. It identifies combustion modifications as the most advanced and effective technique for near- and far-term NO$_x$ control. It gives available capital and differential operating costs for NO$_x$ control in utility boilers by combustion modification and flue gas treatment. Combustion control of NO$_x$ is an order of magnitude lower in capital cost than NO$_x$ or SO$_x$ control by flue gas treatment. Cost data for remaining equipment types is sparse and the need is cited for open dissemination on a standardized basis of data on field tests of NOX$_x$ control techniques. EPA CONTACT: Lachapelle, D. G. 919-549-2236

600/2-75-047 PE 1BB043 ROAP/TASK 21 AST CONTRACT NO. 14-12-150

Demineralization of Wastewater by Electrodialysis BY H. H. Takenaka, C. L. Chen, and R. P. Miele, Los Angeles County Sanitation District Whittier, CA

Demineralization of carbon-treated secondary effluent by 45.5 l pm (12 gpm) Ionics electrodialysis pilot plant was investigated at the Pomona Advanced Wastewater Treatment Research Facility, Pomona, California. Slime formation (organic fouling) on the membranes and spacers of the electrodialysis stack during continuous operation significantly decreased the effectiveness of the electrodialysis process to demineralize municipal wastewater. If the total COD of the feedwater was maintained at or below 10 mg/1, a weekly enzyme-detergent flush maintained the total dissolved solids (TDS) removal in the design range of 30-35 percent. A cost estimate for a 10 MGD single stage electrodialysis plant based on the operating results obtained at Pomona was made. The estimated cost of 19.4¢ per 1,000 gallons was based on the use of carbontreated secondary effluent with an average TDS concentration of 540 mg/1 and a total COD of 10 mg/1 or less to produce a product water with 30-35 percent reduction in TDS. EPA CONTACT: Smith, J. M. 513-684-8334

600/2-75-048 PE 1AA002 CONTRACT NO. 68-02-1275

Protocol to Characterize Gaseous Emissions as a Function of Fuel and Additive Composition BY H. M. Dietzmann, Southwest Research Institute San Antonio, TX

This project sought to validate an engine dynamometer test schedule for additive effects previously used in Dow and Bu Mines programs. Previous problems with vehicle-to-engine dynamometer comparability were solved by the use of a Clayton power absorption unit and a fixed flywheel as an inertia simulator. Thus, adequate road simulation was achieved. Numerous analytical techniques were developed including analysis for SO$_2$, H$_2$S, COS, methyl and ethyl mercaptan, ammonia, N, N-dimethylnitrosamine, hydrocarbon distribution, and trace metals. No additive-derived products were found in the study of two commercial additive packages with either catalyst or non-catalyst engine configurations. The mileage accumulation schedule used resulted in overlyhigh rates of accumulation of intake manifold deposits for both additive and base fuels. It is suggested that greater mileage accumulations over a heavier duty cycle will be necessary to detect the effects of additives on catalyst deterioration. EPA CONTACT: Bradow, R. L. 919-549-2216

600/2-75-049 PE 1BC611 GRANT NO. 11010 FAC

Raw Sewage Coagulation and Aerobic Sludge Digestion BY R. H. Jones, T. A. Burnsztynsky, and J. D. Crane, Holywood, City of Holywood, FL

Laboratory and full-scale studies were conducted at the Hollywood, Florida, sewage treatment plant to determine the efficiency of chemical coagulation for treatment of raw sewage and aerobic digestion of primary sewage sludge. While various polyelectrolytes produced high treatment efficiencies in the laboratory, these efficiencies could not be achieved in fullscale tests due to inadequate mixing and higher soluble BOD concentrations. Sludges were successfully digested aerobically with as little as ten days detention. An oxygen uptake rate of up to 1.8 gm O$_2$ (gm T.S.) (hr) was observed for sludge ages greater than 20 days. The recommended detention time of 20 days produced a solids content between 4 and 6 percent. EPA CONTACT: Lomasney, E. P.

600/2-75-050 PE 1AB013 ROAP/TASK 21 AAZ 001 CONTRACT NO. 68-02-1814

EPA Alkali Scrubbing Test Facility: Advanced Program (First Progress Report) BY M. Epstein, Bechtel Corporation San Francisco, CA

The report gives results of advanced program tests on a prototype lime/ limestone wet-scrubbing SO$_2$ and particulate removal facility of TVA's Shawnee Power Station. Aimed at achieving reliable mist eliminator operation, a venturi/spray tower was operated with lime, and a Turbulent Contact Absorber (TCA) with limestone, each with a 30,000 acfm (10 Mw equivalent) flue gas capacity. The venturi/spray tower system was maintained essentially clean in an 823-hour run at 8.0 ft/sec gas velocity and 8% slurry solids (the 3-pass, open-vane Chevron mist eliminator was intermittently washed on both topside and underside with make-up water). The TCA system was operated successfully in an 1835-hour run at 8.6 ft/sec gas velocity and 15% slurry solids (the mist eliminator consisted of a Koch Flexitray in series with a 6-pass, closed-vane Chevron mist eliminator, both with underside wash). Both systems operated with better than 99% particulate removal efficiency and with outlet loadings of 0.01 to 0.03 grains/scf. A correlating equation is presented of TCA pressure drop tests. EPA CONTACT: Williams, J. E. 919-549-2915

NEW REPORT ABSTRACTS SECTION

600/2-75-051 PE 1AB013 ROAP/TASK 21 ADD 097 CONTRACT NO. 68-02-1302

Conceptual Design of a Commercial Scale Plant for Chemical Desulfurization of Coal BY W. F. Nekervis, and E. F. Hensley, Dow Chemical Company Midland, MI

The report presents a conceptual design and an economic evaluation of a 9070 metric ton per day plant for the chemical removal of pyritic sulfur from coal. All supporting facilities are included for a selfsufficient operating complex with purchased water and power. The process engineering is complete through a capital cost estimate. Computer augmented studies are included for the material and energy balances, selection of the reactor systems, monitoring of operating parameters, and economic sensitivity studies of process alternatives. EPA CONTACT: Lorenzi, L. Jr. 919-549-2851

600/2-75-052 PE 1AA010 CONTRACT NO. 68-02-1792

Collection Efficiency Study of the Proposed Method 13 Sampling Train BY W. Smith, Entropy Environmentalists, Inc. Research Triangle Park, NC

This report summarizes testing undertaken to determine the collection efficiency of the proposed Method 13 sampling train. The efficiency of the train in the concentration range 6-118 ppm and at a sampling rate of 3/4 to 1 cfm was found to be 99+%. Laboratory analyses of samples using the SPADNS and the SIE techniques for fluoride determination showed that the SPADNS method is less precise and accurate than the specific ion electrode. It was also determined that the distillation step in the analytical procedure resulted in erratic and non-reproducible results. Analyses requiring this distillation step must be watched carefully to avoid carry over of potential interfering ions. EPA CONTACT: Barnes, H. M., Jr. 919-549-2216

600/2-75-053 PE 1AA010 CONTRACT NO. 68-02-1722

Determination of the Magnitude of SO_2, NO, CO_2, and O_2 Stratification in the Ducting of Fossil Fuel Fired Power Plants BY A. R. Crawford, M. W. Gregord, E. H. Manny, and W. Bartok, Exxon Research and Engineering Company Linden, NJ

A field measurement program on utility boilers to determine gas stratification in the ducting was conducted. One of the purposes of the study was to determine the optimum location for extracting representative gas samples for continuous monitoring. The results indicate that gas concentration averages, gas velocity averages, and gas temperature averages obtained by traversing the inner 50% of the duct cross section do not differ significantly from those obtained by traversing the entire duct. Also, it has been found that sampling from only a limited number of points within the inner 50% usually yields a representative sample. EPA CONTACT: Barnes, H. M., Jr. 919-549-2216

600/2-75-054 PE 1AB012 ROAP/TASK 21 ADL 002 CONTRACT NO. 68-02-1316

Overview of EPA/IERL-RTP Scrubber Programs BY D. W. Cooper, L. W. Parker, and E. Mallove, GCA Corporation Bedford, MA

The report gives: an introduction to fine particle control scrubber programs supported by EPA's Industrial Environmental Research Laboratory at Research Triangle Park in North Carolina (IERL-RTP); and topical and chronological over-views of the various projects which IERL-RTP has sponsored relating to scrubber technology. Having reviewed the state-of-the-art which culminated in the Scrubber Handbook, IERL-RTP sponsored scrubber tests which generally validated the models presented in the Handbook. Possible exceptions (mobile-bed scrubbers and series scrubbing with low-energy devices) became objects of further study. Two major mechanisms for increasing scrubber efficiency have been studied by IERL-RTP contractors: flux-force/condensation scrubbing (use of diffusiophoresis and condensation growth of particles), and electrostatic augmentation (scrubbing with charged droplets); both have shown efficiences which are higher than those achieved by conventional means at equal power consumption levels. Problems with entrained water droplets have caused IERL-RTP to fund theoretical and experimental research in entrainment separator technology, some of the results of which are presented. The hypothesis that particle wettability is important in determining scrubbing efficiency is to be tested by an IERL-RTP sponsored research program. EPA CONTACT: Sparks, L.E. 919-549-2557

600/2-75-055 PE 1BB036 ROAP/TASK 21 AZT 006 GRANT NO. 801192

Treatment of Textile Wastewater by Activated Sludge and Alum Coagulation BY T. L. Rinker, Lehigh Valley Industries, Inc. Bangor, PA

The report gives results of a study of the treatment of wastewater, from a textile mill producing synthetic knit fabric for the apparel and automotive markets, with a system combining biological (activated sludge) and chemical (alum coagulation) processes. The treatment consisted of: heat recovery; equalization; completely mixed activated sludge with sedimentation and nutrient supplement; and alum coagulation with sedimentation, polymer addition, and pH adjustment. The activated sludge process effectively removed degradable organics and ammonia nitrogen. The alum coagulation process effectively removed colloidal organics, suspended solids, orthophosphate, and certain metals. Total treatment system removals for BOD, COD, and color were 92, 73, and 69 percent, respectively. Capital cost of the system was $1.15 million with a yearly operating expense of $269,030, including capital cost depreciation. Additional treatment was required to meet anticipated discharge limitations. Appropriate research studies were conducted using carbon adsorption, resin adsorption, and ozonation for residual, soluble color removal. EPA CONTACT: Sargent, T. N.

NEW REPORT ABSTRACTS SECTION

600/2-75-056 PE 1AB012 ROAP/TASK 21 ADL 004 CONTRACT NO. 68-02-1308

Particulate Collection Efficiency Measurements on Three Electrostatic Precipitators BY C. B. Nichols, and J. D. McCain, M. W. Kellogg Company Houston, TX

The report gives results of a determination of the operating characteristics of three full-scale electrostatic precipitators (ESP's), made to provide definitive data on their performance. The measured performance of these ESP's was compared with the theoretically predicted efficiencies computed by an ESP mathematical model. Field measurements of total inlet and outlet mass concentrations, particle size distributions, and electrical data were used for these comparisons. Descriptions of the measurement procedures and the mathematical model are included. Two of the ESP's were at electric power generating stations; the third, at a cement kiln. EPA CONTACT: Sparks, L. E. 919-549-2925

600/2-75-057 PE 1AB013 ROAP/TASK 21 ADA 004 CONTRACT NO. CPA-70-114

Magnesia Scrubbing Process as Applied to an Oil-Fired Power Plant BY G. Koehler, and J. A. Burns, Chemical Construction Corporation New York, NY

The report gives results of a full size demonstration of the magnesia wet-scrubbing system for flue gas desulfurization on an oil fired, 150 MW generating unit. The project involved: design and construction of both an SO_2 removal system (based on firing 2.5% sulfur fuel) and an MgO regeneration facility for 50 ton/day acid production; and operation of both plants over a 2 year period. The report shows that the system removed 90% of the inlet SO_2 and controlled particulate emissions from the generating station, where 4000 hours of operation were logged. Regenerated magnesia was recycled successfully and over 5000 tons of acid was marketed from the regeneration plant, demonstrating the feasibility of the process. Correlations were developed both to determine SO_2 removal for varying boiler loads and fuel sulfur content, and to control regeneration of acceptable alkali. Several other studies of the process technology and chemistry were undertaken as part of the work. EPA CONTACT: Chatlynne, C. J. 919-549-2915

600/2-75-059 PE 1AB012 ROAP/TASK 21 ADL 034 GRANT NO. 803556-01

Proceedings: Symposium on Fine Particles – Minneapolis, Minnesota, May 1975 BY B. J. H. Liu, Minnesota, University of Minneapolis, MN

These proceedings contain technical papers presented at the Symposium on Fine Particles held in Minneapolis, Minnesota, May 28-30, 1975. Also contained are several papers which were not presented at the Symposium because of a lack of time. The purpose of the Symposium was to review the state of the art and recent developments in instrumentation and experimental techniques for aerosol studies. The focus was on fine particles below about 3.5 micrometers in diameter. Topics covered include aerosol generation, measurement, sampling, and analysis. EPA CONTACT: Drehmel, D. C. 919-549-2925

600/2-75-061 PE 1BC611 ROAP/TASK 21 ASR 002 CONTRACT NO. 68-01-0042

Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants BY S. J. Sedita, Houston Research, Inc. Houston, TX

Activated sludge from the Bellaire, Texas, plant was acclimated to five different test compounds, 2, 4-Dichlorophenol, Linear Alkylate Sulfonates, Nitrilotriacetic Acid. Ethylene dinitrilotetracetic Acid, and Ethylene glycol. The test compounds were then incorporated into wastewater influent to the Bellaire plant and fed to the acclimated sludge which had been mechanically disrupted by sonic energy, to varying degrees. Cell disruption was followed by TOC increase and cell number decrease, and on the average resulted in a significant reduction in cell numbers both at 20 minutes and at one hour. The use of disrupted cells may have some potential in waste treatment as demonstrated by substrate removal with sonically disrupted sludge or the supernate from sonically disrupted sludge. EPA CONTACT: Lewis, R. F. 513-548-3503

600/2-75-063 PE 1AB013 ROAP/TASK 21 ADD 053 GRANT NO. 800897

Catalytic Desulfurization and Denitrogenation BY C. N. Satterfield, M. Modell, J. F. Mayer, and J. F. Cocchetto, Massachusetts Institute of Technology Cambridge, MA

The report gives results of a study of catalytic desulfurization and denitrogenation, using thiophene and pyridine as model compounds because they represent some of the less reactive organosulfur and organonitrogen compounds. When thiophene is hydrodesulfurized simultaneously with the hydrodenitrogenation of pyridine (200 to 500 C, 4.4 and II.2 bars pressure, commercial catalysts), the two reactions are mutually inhibitive at lower temperatures. At high temperatures, H_2S (a hydrodesulfurization reaction product) enhances the hydrodenitrogenation rate. The report proposes mechanisms to explain these observations. In hydrodenitrogenation of pyridine and other heterocyclic nitrogen compounds, the rate may be at least partly governed by the equilibrium of the first step, the hydrogenation of the N-containing ring. EPA CONTACT: Rhodes, W. J. 919-549-2851

NEW REPORT ABSTRACTS SECTION

600/2-75-064 PE 1HB617 IAG NO. IAG-D4-F399

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows BY M. E. Jensen, U.S. Department of Agriculture Kimberly, ID

A comprehensive review is presented of irrigation water management principles, factors to be considered in improving irrigation water management, leaching requirements, climatological approaches to irrigation scheduling, scope of irrigation scheduling services in 1974, basic concepts of scheduling services, and probable effects of scientific irrigation scheduling on salinity of return flows. A definition of irrigation water management efficiency is presented to evaluate the annual volume of irrigation water used relative to the optimum amount needed for maximum annual crop production or income. The term considers the minimum, but essential water needed for both consumptive and nonconsumptive uses. The lack of significant changes in irrigation efficiency during the past several decades is discussed and attributed to problems associated with the management of a complex soil-crop-environment system, a lack of economic incentives to make improvements, and ineffective traditional approaches to improve irrigation scheduling. New proposed minimal leaching practices are discussed. The author concludes that substantial improvements in irrigation efficiencies can be made before the proposed minimal LF are reached on most western irrigated projects. EPA CONTACT: Hornsby, A. G. 405-253-2303

600/2-75-066 PE 1AB013 ROAP/TASK 21 ADH 005 CONTRACT NO. 68-02-1323

Molecular Sieve Control Process in Sulfuric Acid Plants BY D. W. Hissong, Battelle Columbus Laboratories Columbus, OH

The report gives results of an engineering analysis of the applicability of molecular sieve technology to the control of SO_2 emissions from sulfuric acid plants. After the equivalent of 10 months of operation, one plant using this technology is still controlling SO_2 emissions to well within Federal and State regulations for sulfuric acid plants. It is also meeting the performance guarantee of the process developer and vendor. Although the concept of a 2-year sieve life with acceptable SO_2 control has not been demonstrated, there is no reason to believe that it cannot be achieved: at this point this application of molecular sieve technology appears technically feasible. The economic feasibility of the technology for this application was assessed by comparing its total capitalized cost (including investment and operating cost) with that of the Wellman-Lord and dual absorption processes. Capitalized costs for the three are fairly close; individual plant characteristics will affect the economic choice. The technology is more competitive for smaller plants and for those which already have sieve-regeneration air driers. Although the dual absorption process will be the least expensive for many plants, it is limited in its effectiveness. Considering overall cost and effectiveness, molecular sieve technology appears to be economically feasible for some acid plants. EPA CONTACT: Wooldridge, E. J. 919-549-2547

600/2-75-067 PE 1AB013 ROAP/TASK 21 ADE 010 CONTRACT NO. 68-02-1223

Evaluation of National Boiler Inventory BY A. A. Putnam, E. L. Kropp, and R. E. Barrett, Battelle Columbus Laboratories Columbus, OH

The report gives a compilation of the boiler inventory for the Contental United States, using available data sources. Primary sources included the National Emissions Data Bank data, American Boiler Manufacturers Association boiler sales data, and earlier reports to the EPA. Residential, commercial, industrial, and utility boilers are included. Results are presented as: cumulative boiler installed capacity and cumulative actual boiler use (by fuel and total), both plotted against boiler size; cumulative SO_2, NO_x, and particulate emissions (by fuel and total), plotted against boiler size; and tables of boiler number count, boiler installed capacity, boiler actual use, SO_2 emission, NO_x emission, and particulate emission, by boiler size and fuel. EPA CONTACT: Lii, C. C. 919-549-2920

600/2-75-068 PE 1AB013 ROAP/TASK 21 ADD 042 CONTRACT NO. 68-02-1319

Environmental Problem Definition for Petroleum Refineries, Synthetic Natural Gas Plants, and Liquefied Natural Gas Plants BY E. C. Cavanaugh, J. D. Colley, P. S. Dzierlenga, V. M. Felix, D. C. Jones, and T. P. Nelson, Radian Corporation Austin, TX

The report gives process descriptions for petroleum refineries, for synthetic natural gas plants based on liquid hydrocarbon feedstock, and for liquefied natural gas plants. It compares these process descriptions with those for other types of energy conversion plants, such as coal gasification and coal liquefaction. It identifies potential ambient air emissions, liquid effluents, and solid wastes, and discusses monitoring methods and control techniques for these emissions and wastes. It identifies plant siting problems. EPA CONTACT: Lorenzi, L., Jr.

600/2-75-069a PE 1AB014 ROAP/TASK 21 ADG AM CONTRACT NO. 68-02-0251

Guidelines for Residential Oil-Burner Adjustments BY D. W. Locklin, and R. E. Barrett, Battelle Columbus Laboratories Columbus, OH

These guidelines contain recommended procedures for adjusting residential oil burners to minimize air pollution and for efficient fuel use. They are intended for use by skilled service technicians in adjusting burners, and as an aid to service managers engaged in training service technicians. In addition to recommended steps for burner adjustment, the guidelines also include appendixes of background material on pollutants of main concern, field-type instruments and significance of measurements, and emission characteristics of residential oil burners. EPA CONTACT: Hall, R. E. 919-549-2477

NEW REPORT ABSTRACTS SECTION

600/2-75-070 PE EHB447 CONTRACT NO. 68-01-2940

EPA Program Status Report – Synthetic Fuels Program BY B. Truett, R. G. Murray, and G. Foley, Stanford Research Institute Menlo Park, CA Mitre Corporation McLean, VA

The status of EPA's Synthetic Fuels Program as of September, 1974 is presented in nontechnical language. This program is a part of EPA's work directed toward providing the necessary technology for meeting nearterm and long-term energy requirements in an environmentally acceptable manner. The program is aimed at controlling and preventing environmental pollution when coal and other fossil hydrocarbons are converted to synthetic fuels and are utilized as products. Program objectives and responsibility are presented in relation to funding level. Significant accomplishments of the program are summarized, and the thrust of future research is discussed. A bibliography of R&D reports directly related to the synthetic fuel program is attached. EPA CONTACT: Foley, G. 202-755-0207

600/2-75-073 PE 1AB013 ROAP/TASK 21 ACX 083 CONTRACT NO. 68-02-1323

SO_2 Reduction in Non-utility Combustion Sources – Technical and Economic Comparison of Alternatives BY P. S. K. Choi, E. L. Kropp, W. E. Ballantyne, M. Y. Anastas, A. A. Putnam, D. W. Hissong, and T. J. Thomas, Battelle Columbus Laboratories Columbus, OH

The report gives results of an analysis of non-utility combustion (NUC) sources for various size classes and fuel types with respect to the significance of SO_2 emissions. Technical and economic comparisons of various SO_2 control alternatives were made for the important size classes and fuel types. Categories of alternatives included are: physical cleaning of coal, coal gasification, coal liquefaction, fluidized-bed combustion of coal, and flue gas desulfurization. For small size classes of NUC sources, applicabilities of package sorption systems were reviewed. EPA CONTACT: Chatlynne, C. J. 919-549-2915

600/2-75-074 PE 1AB012 ROAP/TASK 21 ADL 092 CONTRACT NO. 68-02-1802

Evaluation of a Particulate Scrubber on a Coal-Fired Utility Boiler BY D. S. Ensor, B. S. Jackson, S. Calvert, C. Lake, D. V. Wallon, R. E. Nilan, K. S. Campbell, T. A. Cahill, and R. G. Flocchini, Meteorology Research, Inc. Altadena, CA

The report gives results of a performance test and engineering analysis of a mobile-bed scrubber on a full-scale coal-fired utility boiler. The scrubber nominally operated at the design particulate removal efficiency of 95%, but the concentration of submicron particles was greatly influenced by mist entrainment. The entrainment resulted in a difference of aerosol penetration through the scrubber as a function of elemental composition and outlet submicron particle concentration independent of pressure drop through the scrubber. The variable concentration of submicron entrained particles made the application of the penetration data as a function of particle size to development of performance models unfeasible. The engineering anaysis showed that the 1972-installed cost was $29/kw and the annual operating cost is 0.5 mills/kwh (75% availability). An initial decline in scrubber availability after startup resulted from now-corrected minor design problems. Steadily improving reliability is attributed to the utility's providing maintenance and solving operating problems. EPA CONTACT: Sparks, L. E. 919-549-2925

600/2-75-075 PE 1AB014 ROAP/TASK 21 ADG 021 GRANT NO. 802204

Effect of Fuel Sulfur on NO_x Emissions from Premixed Flames BY J. O. L. Wendt, and J. M. Ekmann, Arizona, University of Tucson, AZ

The report gives results of an investigation of the effect of fuel sulfur compounds on nitrogen oxides NO_x emissions from premixed gaseous flames. Laboratory measurements, using a methane/air flat flame doped with SO_2 or H_2S, showed that fuel sulfur inhibits the formation of NO_x arising from thermal fixation. This inhibition was significant at all air/fuel ratios and especially at high air preheats. The effect of fuel sulfur on formation of NO_x arising from fuel nitrogen oxidation is less clear because of complex reactions between sulfur- and nitrogen-containing species in both the flame and the sampling probe. A mathematical simulation of a flat flame was developed that showed that the observed effect of fuel sulfur on 'thermal NO' could be explained by a kinetic mechanism involving the catalysis of atom recombination reactions by SO_2. The experimental and theoretical results may be especially significant from a practical point of view, since they appear to indicate that fuel desulfurization may lead to increased NO_x emissions. EPA CONTACT: Lanier, W. S. 919-549-2432

600/2-75-076 PE 1AA010 CONTRACT NO. 68-02-1228

Development of Analytical Techniques for Measuring Ambient Atmospheric Carcinogenic Vapors BY E. D. Pellizzari, Research Triangle Institute

Analytical techniques and instrumentation, developed during the previous contract year, were perfected and evaluated for the collection and analysis of carcinogenic and mutagenic vapors occurring in ambient air. The areas of investigation included (a) the performance of a sorbent cartridge sampler for hazardous vapors occurring at concentrations of ng/cubic meters; (b) the design, fabrication, and performance of a portable field sampler; and (c) the identification of hazardous and background pollutants from several geographical areas in the continental U.S. Research Triangle Park, NC EPA CONTACT: Sawicki, E. 919-549-2185

NEW REPORT ABSTRACTS SECTION

600/2-75-077 PE 1AA010 CONTRACT NO. 68-02-1773

Evaluation of the Correlation Spectrometer as an Area SO_2 Monitor BY R. B. Sperling, Environmental Measurements, Inc. San Francisco, CA

The Barringer COSPEC II instrument, an SO_2 remote sensor, was compared to the manual in-stack SO_2 and velocity compliance tests for emission measurements. The correlation for short term (one hour or less) comparison was poor. Higher correlations for SO_2 emission rates on a daily basis were found. In addition to the COSPEC II, a COSPEC III and COSPEC IV were used in the study. Correlations among the three instruments were good (90–95%). Main source of error in the remote measurements was the wind velocity determinations. For a short time span of less than an hour, wind velocity may vary 100% and only averages can be obtained for the measurements. EPA CONTACT: Barnes, H. M. 919–549–2216

600/2-75-078 PE 1AB013 ROAP/TASK 21 ADD 027 CONTRACT NO. 68-02-1099

Fuel Gas Environmental Impact: Phase Report BY F. L. Robson, A. J. Giramonti, W. A. Blecher, and G. Mazzella, United Technologies Research Center Hartford, CT

The report gives results of an evaluation of the technical and economic feasibility of: (1) Lurgi-type fixed-bed gasifiers and BCRtype entrained-flow gasifiers in combination with low- and high-temperature fuel gas cleanup systems; (2) advanced technology combined-cycle power systems; and (3) integrated gasification systems, cleanup processes, and power systems. Processes and systems considered were those using technology both currently available for power station configurations which the contractor judged could appear in commercial applications in the 1975–78 time frame (first generation systems) and potentially applicable in the 1980-decade time period (second generation systems). The results indicate that high-temperature cleanup systems have the potential of improving the efficiency and reducing the capital costs of integrated gasification systems. EPA CONTACT: Rhodes, W. J. 919–549–2851

600/3-75-005 PE 1AB026 GRANT NO. 802647

Inputs of Phosphorus from Precipitation to Lake Michigan BY T. J. Murphy, and P. V. Doskey, DePaul University Chicago, IL

Precipitation samples were collected at six locations around Lake Michigan and analyzed for the different forms of phosphorus present. It was found that the atmosphere is presently contributing one million kilograms per year of phosphorus or about 18 percent of the phosphorus budget of the Lake. As the phosphorus removal program on sewage effluents becomes fully implemented in the Lake Michigan basin, the contribution to the Lake of phosphorus from particulate matter scavenged by precipitation could increase to about 30 percent of the total. The phosphorus concentration of precipitation was found to be higher at the southern end of the Lake. More than 40 percent of the phosphorus in precipitation is dissolved reactive phosphates and the amount of the dissolved phosphates in precipitation was found to be somewhat dependent on the pH of the sample. The washout ratio for phosphorus by precipitation was determined. It was also found from the analysis of some glacial samples that phosphorus has long been a component of precipitation. EPA CONTACT: Mullin, M. D. 313–226–7811

600/3-75-007 PE 1BA022 GRANT NO. 820529-01

Metabolism of Mercury Compounds in Microorganisms BY R. R. Colwell, and J. D. Nelson Jr., Maryland, University of College Park, MD

This report describes the physiology and ecology of mercury-resistant and mercury-metabolizing bacteria from Chesapeake Bay. Evidence is presented which establishes a role for bacteria in the cycling of mercury in the estuarine environment. From the results of a survey of Hg degree production among a group of randomly selected, $HgCl_2$– resistant bacteria and mixed natural microbial populations, it was established that the enumeration of mercury-resistant bacteria by plate counting is a valid index of potential Hg2+ metabolism *in situ*. The distribution of mercury-resistant bacteria was significantly different in water and sediment, from station to station, and seasonally; the proportion of Hg2+- resistant bacteria among the total, viable, heterotrophic bacterial population reached a reproducible maximum in Spring and was positively correlated with water turbidity, dissolved oxygen concentration, and mercury concentration in the sediment. These findings and the observation of the evolution of Hg degree from freshly collected water and sediment suggest that bacteria may contribute substantially to the mobilization and transformation of mercury from existing deposits in Chesapeake Bay, specifically, and in the aquatic environment, in general. EPA CONTACT: Hegre, C. S. 401–528–4843

600/3-75-008 PE 1BA022 IN-HOUSE PROJECT

Secondary Annotated Bibliography of Biological Effects of Metals in Aquatic Environments BY R. Eisler, and M. Wapner, Environmental Research Laboratory, EPA Narragansett, RI

A total of 725 references are listed on the toxicological, physiological, and metabolic influence of stable and radiolabelled chemical species of metal cations to marine, estuarine, and freshwater fauna and flora. References were annotated and subsequently indexed by metal, by taxa, and by author, in cumulative indices which encompass this volume and the initial volume in this series (Eisler, R. 1973. Annotated bibliography on biological effects of metals in aquatic environments (No. 1–567). U.S. Envir. Prot. Agen. Rept. R3–73–007: 287 pp.). EPA CONTACT: Gamache, R. A. 401–528–4843

NEW REPORT ABSTRACTS SECTION

600/3-75-010a **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report—Summary Special Studies Staff, EPA Research Triangle Park, NC

This report constitutes the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010b **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report Appendices, Volume I Special Studies Staff, EPA Research Triangle Park, NC

This is the lst volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010c **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report Appendices, Volume II Special Studies Staff, EPA Research Triangle Park, NC

This is the 2nd volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010d **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report Appendices, Volume III Special Studies Staff, EPA Research Triangle Park, NC

This is the 3rd volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010e **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report Appendices, Volume IV Special Studies Staff, EPA Research Triangle Park, NC

This is the 4th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010f **PE 1AA002** **IN-HOUSE PROJECT**

Annual Catalyst Research Program Report Appendices, Volume V Special Studies Staff, EPA Research Triangle Park, NC

This is the 5th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

NEW REPORT ABSTRACTS SECTION

600/3-75-010g PE 1AA002 IN-HOUSE PROJECT

Annual Catalyst Research Program Report Appendices, Volume VI Special Studies Staff, EPA Research Triangle Park, NC

This is the 6th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010h PE 1AA002 IN-HOUSE PROJECT

Annual Catalyst Research Program Report Appendices, Volume VII Special Studies Staff, EPA Research Triangle Park, NC

This is the 7th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010i PE 1AA002 IN-HOUSE PROJECT

Annual Catalyst Research Program Report Appendices, Volume VIII Special Studies Staff, EPA Research Triangle Park, NC

This is the 8th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-010j PE 1AA002 IN-HOUSE PROJECT

Annual Catalyst Research Program Report Appendices, Volume IX Special Studies Staff, EPA Research Triangle Park, NC

This is the 9th volume of appendices to the first Annual Report of the ORD Catalyst Research Program required by the Administrator as noted in his testimony before the Senate Public Works Committee on November 6, 1973. It includes all research aspects of this broad multi-disciplinary program including: emissions characterization, measurement method development, monitoring, fuels analysis, toxicology, biology, epidemiology, human studies, and unregulated emissions control options. Principal focus is upon catalyst-generated sulfuric acid and noble metal particulate emissions. EPA CONTACT: Moran, J. B. 919-549-2525

600/3-75-011 PE 1DB064 ROAP/TASK 21 BFO 002 CONTRACT NO. 68-03-2052

Compilation of Methodology Used for Measuring Pollution Parameters of Sanitary Landfill Leachate BY E. S. K. Chian, and F. B. DeWalle, Illinois, University of Urbana, IL

Different analytical methods can be used to determine a specific parameter, a preliminary laboratory evaluation was made of those methods least subject to intereferences. All analyses were conducted with a relatively concentrated leachate sample obtained from a lysimeter filled with milled solid waste. The results indicate that strong interferences are sometimes encountered when using colorimetric tests due principally to the color and suspended solids present in leachate. In such instances alternative methods were evaluated or recommendations were made to reduce the interfering effects. Automated chemical analysis using colorimetric methods can sometimes experience significant interferences. EPA CONTACT: Carnes, R. A. 513-684-4487

600/3-75-014 PE 1AA006 IN-HOUSE PROJECT

Methylation of Mercury in a Terrestrial Environment BY R. D. Rogers, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

Methylation of applied divalent mercury ion was found to occur in terrestrial soil systems. The production of methylmercury was affected by soil texture, soil moisture content, soil temperature, concentration of the ionic mercury amendment, and time. Methylation was directly proportional to percent clay concent, moisture content, temperature, and mercury concentration. After an initial buildup of methylmercury in the soil, there appeared to be a mechanism that decreased the methylmercury content with increasing time. EPA CONTACT: Rogers, R. D.

NEW REPORT ABSTRACTS SECTION

600/4-75-009 PE 1AA001 CONTRACT NO. 68-02-0752

Collection and Analysis of Airborne Suspended Particulate Matter Respirable to Humans for Sulfates and Polycyclic Organics BY W. M. Henry, and R. I. Mitchell, Battelle Columbus Laboratories Columbus, OH

A massive air volume sampler has been designed and constructed to collect large masses of particulates in three particle size ranges: < 3.5 m, 1.7 to 3.5 m, and > 1.7 m. The latter two smaller size ranges represent the particulates deemed by aerosol physiologists to be representative of the respirable size particles. The partition of the respirable fraction into two size ranges is to provide more definitive data on aerosols which have been created by secondary processes, such as photochemical reactions. Field tests of the sampler design and construction show that better than gram masses of urban atmospheric particulate loadings can be collected in 24-hour periods, the samples can be recovered readily from the sampler collector substrates and the mass fraction obtained correlate closely with cascade impactor sampling results. Compositional structural examinations of the collected particulates clearly show that different size ranges have different chemical and physical properties. It is foreseen that the mass collection capability of the sampler would provide respirable size particulate samples for certain types of health/toxicity studies as well as providing samples for chemical analysis. EPA CONTACT: Thompson, R. J. 919-549-2150

600/4-75-010 PE 1HA326 IN-HOUSE PROJECT

Hydrocarbon Measurement Discrepancies Among Various Analyzers Using Flame-Ionization Detectors BY F. F. McElroy, and V. L. Thompson, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

Several experimenters have observed substantially discrepant nonmethane hydrocarbon measurements from various types of hydrocarbon analyzers measuring identical samples of ambient air. To formally investigate this problem, an experimental laboratory study wherein a number of flame-ionization analyzers were observed under controlled conditions while making simultaneous measurements of urban ambient air was conducted. Substantial discrepancies were found to occur among different models of analyzers. The standard deviations of these discrepancies averaged 0.322 part per million, which is extremely large with respect to the ambient air quality standard for nonmethane hydrocarbons, 0.24 part per million. EPA CONTACT: McElroy, F. F. 919-549-2155

600/4-75-012 PE 1HA327 IN-HOUSE PROJECT

Recommended Design of Sample Intake Systems for Automatic Instrumentation BY R. P. Lauch, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

Pumping systems for automatic water quality monitors are discussed, and recommendations on sample change, residence time, site selection, pipe size, pump selection, system cleaning, and overall design are given. Experimental data showing sample degradation because of biological metabolism, cavitation, and aeration are presented. A recommended system to overcome past problems is presented and alternative approaches for system installation are also shown. EPA CONTACT: Lauch, R. P. 513-684-2935

600/4-75-013 PE 1HA327 IN-HOUSE PROJECT

Tentative Reference Method for Measurement of Tritium in Environmental Waters Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

A tentative reference method for the measurement of tritium in potable and nonpotable environmental water is described. Water samples are treated with sodium hydroxide and potassium permanganate and then a water fraction is separated from interferences by distillation. Two distillation procedures are described, a simple aqueous distillation for samples from potable water sources, and an aqueous-azeotropic-benzene distillation for nonpotable water sources. Alliquots of a designated distillate fraction are measured for tritium activity by liquid scintillation detection. Distillation recovery and counting efficiency factors are determined with tritium standards. Results are reported in picocuries per milliliter. EPA CONTACT: Douglas, G. S. 702-736-2969

600/4-75-014 PE 1HA327 IN-HOUSE PROJECT

Radiation Quality Assurance Intercomparison Studies 1974-1975 Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

The Quality Assurance Branch of the Monitoring Systems Research and Development Division at the U.S. Environmental Protection Agency's Environmental Monitoring and Support Laboratory-Las Vegas prepares and distributes calibrated low-level radioactive solutions to Federal, State, and private laboratories involved in environmental radiation monitoring and surveillance. These solutions are utilized for both the calibration of counting instruments and chemical yield determinations. Since the laboratories using these samples must have confidence in their accuracy, the Quality Assurance Branch has instituted intercomparison studies with the National Bureau of Standards and with the Energy Research and Development Administration Health and Service Laboratory. The results of the studies conducted during 1974 and 1975 are described. EPA CONTACT: Jarvis, A. N.

NEW REPORT ABSTRACTS SECTION

600/4-75-015 PE 1BA029 IN-HOUSE PROJECT

NATIONAL EUTROPHICATION SURVEY—Data Acquisitions and Laboratory Analysis System for Lake Samples BY J. W. Mullins, R. N. Snelling, D. D. Moden, and R. G. Seals, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

A system for data acquisition and laboratory analysis for the National Eutrophication Survey is presented. A description is given of the field measurement and data recording, the sample control process, the laboratory analysis and data management. Flow charts and data forms are given for the field and sample control functions. A description with drawings is given of the Technicon Autoanalyzers used for the laboratory analysis of the samples. EPA CONTACT: Mullins, J. W.

600/4-75-016a PE 1AA009 CONTRACT NO. 68-02-1310

Turbulence Modeling and Its Application to Atmospheric Diffusion. Part I: Recent Program Development, Verification, and Application BY W. S. Lewellen, and M. Teske, Aeronautical Research Associates of Princeton, Inc. Princeton, NJ

This report details the progress made at A.R.A.P. during fiscal year 1975 towards the goal of developing a viable computer model based on second-order closures of the turbulent correlation equations for predicting the fate of nonchemically reacting contaminants released in the atmospheric boundary layer. The invariant turbulent model discussed in previous reports has been further verified by new comparisons between model predictions and experimental observations. Model capability has been extended by increasing the dimensions of the program to permit the calculation of two-dimensional, unsteady turbulent flow. A number of practical plume calculations were made and compared with standard Gaussian plume assumptions. Calculations are also made for comparison with the complementary turbulent models being developed at The Pennsylvania State University and Flow Research, Inc. EPA CONTACT: Calder, K. L. 919-549-4545

600/4-75-016b PE 1AA009 CONTRACT NO. 68-02-1310

Turbulence Modeling and Its Application to Atmospheric Diffusion. Part II: Critical Review of the Use of Invariant Modeling BY W. S. Lewellen, and M. Teske, Aeronautical Research Associates of Princeton, Inc. Princeton, NJ

A method for the calculation of turbulent shear flows based on closure of the equations for second-order correlations of fluctuating quantities is reviewed. Various model possibilities for closure are described and detailed evaluation of coefficients for a simple model is outlined. Comparisons of model predictions and experimental data for a wide variety of laboratory and atmospheric flows are presented. EPA CONTACT: Calder, K. L. 919-549-4545

600/5-75-009 PE 1HA098 ROAP/TASK 21 AKL GRANT NO. 802443

Land Use and the Environment: An Anthology of Readings BY V. Curtis, American Society of Planning Officials Chicago, IL

This anthology is designed to offer a wide selection of high quality readings concerning current theory and practice of land use and environmental quality. These readings will help those involved in shaping land use patterns to more fully appreciate the scope of their responsibilities. EPA is initiating research into the relationship between land use and environmental quality to improve the methodologies available to decision makers involved in land-use issues. This anthology contains papers on: Land Use Concepts; The Relationship Between Land Use and Environmental Protection; National Land Use Policy; State Land Use Environmental Policies; Applications for Land Use; and Conflicts Yet Unborn. This is the first of a series of documents devoted to improving the "environmental sensitivity" of the decision-making and comprehensive-planning process. EPA CONTACT: Ehler, C.

600/5-75-016 PE 1HA098 GRANT NO. 803049-01

Quality of Life Indicators in U.S. Metropolitan Areas, 1970: A Comprehensive Assessment BY B. C. Liu, Midwest Research Institute Kansas City, MO

The primary objective of this study is to quantitatively assess the urban quality of life (QOL) and to analyze the variations in the QOL components in the 243 SMSA's in the U.S. This study develops a systematic methodology for constructing economic, political, environmental, health & education, and social indicators to reflect the overall "health" of the nation and its citizens' wellbeing. These five QOL components consist of some 123 factors which were selected to reflect the essential physical inputs in the QOL. Primary and secondary statistical data for 1970 were collected, reorganized and modified to represent the 123 QOL factor inputs employed in the methodology to derive the QOL component indexes. For analytical purposes, the 243 SMSA's were divided into three population groups—65 large SMSA's (with populations larger than 500,000); 83 medium SMSA's (200,000 – 500,000); and 95 small SMSA's (less than 200,000). The SMSA's in each population group were rated outstanding (A), excellent (B), good (C), adequate (D), or substandard (E) separately for each component on the basis of their QOL index values relative to the respective group means. A static, descriptive analysis of the empirical results was performed, and important findings and relevant policy implications were delineated. EPA CONTACT: Livingston, R.

NEW REPORT ABSTRACTS SECTION

600/5-75-017 PE 1HA097 GRANT NO. 802575

Environmental Indices for the Los Angeles Database BY D. G. Malcolm, J. M. Hemphill, J. E. Gessford, P. Hanson, D. MacDonald, C. Avery, and M. J. Epstein, California State University Los Angeles, CA

The purpose of the project was to expand the scope of the analyses being made by the Community Analysis Bureau (CAB) of the City of Los Angeles to include measures of environmental quality, which included indicators of air quality, noise, water quality and quantity, land use, handling of solid waste and energy use. The project team surveyed federal, state, county and city agency data sources and located the data needed to implement a set of indices similar to the Initial System of indices designed and developed for the County of San Diego by the IREM project in 1973. Because the CAB database is organized by census tract the problem had to be dealt with of interpolating environmental data, which is not organized by census tracts, to the census tract breakdown of the area. A two-state statistical analysis technique, called "matric analysis", is described. This technique identifies urban areas that share many common characteristics, including the environmental qualities measured by the indices. Government policies and programs that meet the needs of each type urban area are then developed. The relationships between energy use and environmental problems are described. Various organizational problems noted by the project team that prevent effective environmental information systems and management are reported. EPA CONTACT: Mierzwa, T. J. 703-557-7725

600/5-75-018 PE 1HA098 GRANT NO. 802836

Environmental Management in the Malibu Watershed: Institutional Framework BY W. D. Conn, California, University of Los Angeles, CA

This report examines the institutional framework for environmental management in the Malibu Watershed area, Los Angeles County, California. On the basis that the nature and scale of permitted development is likely to be the major factor shaping the future environment of the study area, an attempt is made to identify and assess the roles of both those agencies that play a positive role in promoting development and those that constrain and regulate development. Following a brief description of the study area, the report examines the roles of particular government agencies in planning and decision-making processes affecting different "elements" of the environment (e.g., land-use, coastal resources, air quality, etc.). It then approaches the subject from a different perspective, studying the involvement of a number of institutions in particular projects or sets of projects (e.g., the installation of sewage treatment facilities, the construction of a private university, etc.). The information presented is discussed, and conclusions are drawn about current institutional roles in environmental management. Several problems are pointed out, and tentative recommendations are made for possible solutions worthy of further study. EPA CONTACT: Neuschatz, A. 703-557-7490

600/6-75-003 PE 1AA001 ROAP/TASK 26 AAA IN-HOUSE PROJECT

Scientific and Technical Assessment Report on Cadmium Special Studies Staff, EPA Research Triangle Park, NC

This report is a review and evaluation of the current knowledge of cadmium in the environment as related to possible deleterious effects on human health and welfare. Sources, distribution, measurement, and control technology are also considered. Cadmium is widely distributed in the environment. The air over urban areas has contained generally less than 0.1 microgram per cubic meter (micrograms/cubic meter), 24-hour average, but a 24-hour average as high as 0.73 micrograms/cubic meter has been measured in the air of a community with a known cadmium source. The cadmium content of water generally is less than 1 part per billion although much higher values have been found. The cadmium content in foods varies widely. The estimated intake from foods is 25 to 75 micrograms per day. The human body burden of cadmium is cumulative. The half-time of cadmium in man is estimated at over 10 years. Man's primary exposure is from food, tobacco smoke, water, and ambient air. Food and tobacco smoke are the major sources except in the immediate vicinity of major sources of atmospheric emissions of cadmium. Emphysema and other lung diseases have been related to industrial exposure to airborne cadmium compounds. Kidney damage has also resulted from long-term exposure to cadmium. Animal experiments link anemia, hypertension, testicular necrosis, and carcinogenesis with cadmium exposure. Current knowledge of the dose-response relationship does not provide criteria on which to base standards.

600/9-75-005 PE 1BB466 GRANT NO. 803729

Agriculture and Clean Water – Proceedings of a Conference on Agricultural Water Pollution Control BY C. C. Chappelow, Midwest Research Institute Kansas City, MO

A 1-day conference was held to promote a constructive dialogue on the development of plans for the control of agriculture related nonpoint source pollution arising from sediment erosion, fertilizer runoff, livestock wastes and pesticide residues. The morning session was devoted to an analysis of the state of the art on nonpoint source pollution related to agriculture with presentations on: (1) regional aspects and viewpoints; (2) agricultural pollution control; (3) technical basis of control; (4) conservation districts; (5) soil conservation; and (6) plant nutrients. The luncheon session was concerned with an economic overview, consisting of an address on economic problems and opportunities of pollution control. The afternoon session was designed to explore elements of control strategy planning for nonpoint pollution from agricultural sources with papers on: (1) the states' role; (2) one state's approach; and (3) the role of the farmer and agribusiness. The afternoon session was concluded with a panel discussion on the development of a practicable agricultural pollution control plan. Over 175 individuals from 20 different states representing local, state, regional, and federal agricultural and environmental agencies attended the conference. Also, included in the 75 different organizations represented at the conference were attendees from farmer associations, educational institutions, and agribusiness. EPA CONTACT: Alexander, A. 816-374-2921

NEW REPORT ABSTRACTS SECTION

600/9–75–006 PE 1HA323 GRANT NO. 803107–01

WATER RESOURCES: Utilization and Conservation in the Environment BY M. C. Blount, Fort Valley State College Fort Valley, GA

Proceedings of the Southeast Region Water Resources Symposium held at Fort Valley State College on February 28 to March 1, 1974. The Symposium was jointly sponsored by Fort Valley State College and the Environmental Protection Agency in cooperation with the University of Georgia, Athens, Ga.; Southern Piedmont Soil and Water Conservation Research Center, Watkinsville, Ga.; Soil Conservation Service, Athens, Ga.; and the Southeast Environmental Research Laboratory, Athens, Ga. This report consists of twenty-three contributions, including a symposium summary, Table of Contents, glossary and index. The symposium covered comprehensively agriculture's involvement with water: conservation and management of supplies, hazards to water quality and some means of controlling them, and urban erosion control where rural erosion control practices are finding application. Those concerned with non-agricultural aspects of water resources should gain valuable insights from these symposium papers. EPA CONTACT: Bishop, C. C. 202–426–4527

600/9–75–008 PE 1AA002 IN-HOUSE PROJECT

Report on the Problem of Halogenated Air Pollutants and Stratospheric Ozone Environmental Science Research Laboratory, EPA Research Triangle Park, NC

EPA is conducting a research program on halocarbon air pollutants and their possible interaction with stratospheric ozone. Principal compounds under study are fluorocarbon-ll, fluorocarbon-12, fluorocarbon-22, carbon tetrachloride, methyl chloroform, perchloroethylene, trichloroethylene, dichloroethane, methylene dichloride, and methyl chloride. Laboratory studies concern the rates of decomposition of these pollutants in the air and the identity and fate of their decomposition products. Field studies involve measuring concentrations of halocarbons and their decomposition products as functions of altitude and distance from sources. Fluorocarbons are discussed in detail and include emission sources, current control technology, and possible chemical substitutes. Problems of emissions control and EPA's regulatory authority are reviewed and the economic impacts of several regulatory options for fluorocarbons are considered. EPA CONTACT: Hosler, C. R. 919–629–4543

650/2–75–057b PE 1AB013 ROAP/TASK 21 ACX 130 CONTRACT NO. 68–02–1321

Survey of Flue Gas Desulfurization Systems La Cygne Station, Kansas City Power and Light Co. and Kansas Gas and Electric Co. PEDCo-Environmental Specialists, Inc. Cincinnati, OH

The report gives results of a survey of the wet limestone flue gas desulfurization (FGD) system at the La Cygne Station of Kansas City Power and Light Co. and Kansas Gas and Electric Co. The FGD system, designed and installed by the Babcock and Wilcox Co., was built integral with the electric power generating facility. The system consists of seven modules for particulate and SO_2 removal, with onsite limestone grinding and storage facilities. Since there is no provision for bypassing flue gas around the FGD modules, all flue gases are treated. Several modifications have been made since system start-up in February 1973. A particulate removal efficiency of 97–99% has been reported. SO_2 removal efficiency ranges between 70 and 83%. The spent limestone slury is discharged to a 160 acre pond, and water from the pond is recycled. The initial installed capital cost of the FGD system was $34 million or $41/KW (based on a net rated capacity of 820 MW) in 1973. Subsequent modifications increased the cost to about $45 million or $55/KW. Estimated operating and maintenance costs, including limestone, are 1.79 mills/KWH, not including capital charges. EPA CONTACT: Kaplan, N. 919–549–2915

650/2–75–061a PE 1AB014 ROAP/TASK 21 BCC 14 CONTRACT NO. 68–02–1092

Influence of Aerodynamic Phenomena on Formation in Combustion – Volume I. Experimental Results United Technologies Research Center East Hartford, CT

The report gives results of the measurement of average concentration levels of NO, NO_2, CO, and unburned hydrocarbons (THC) at the exhaust of an axisym-metric combustor over a significant range of operating conditions. In addition, it gives detailed species concentration, temperature, and velocity maps throughout the combustor for seven representative operating conditions. In the combustor, natural gas, a synthesized $CH_4/CO/H_2$ fuel, or vaporized propane issued through a central duct to mix and bum with an annular air stream in a 1.8 long cylindrical duct. In a few tests, liquid propane was the fuel. Major combustor input parameters varied over the following ranges: overall fuel/air equivalence ratio 0.5-1.3 air/fuel velocity ratio 0.1–40, inlet air swirl number zero-0.6, air flow rate 0.088– 0.137 kg/sec, inlet air temperature 730–860K, and combustor pressure 1–7 atm. Water-cooled probes were used to remove samples from the flow for on-line concentration analysis and to measure temperature, velocity, and flow direction. Elevated pressure and introduction of swirl, to the extent considered in the present experiments, create 'unmixedness' in the combustor flow field which in turn results in enhanced NO formation and consumption of hydrocarbons. Aerodynamic flame stabilization produces strong stirring which results in relatively low NO formation and hydrocarbon consumption rates. EPA CONTACT: Lanier, W. S. 919–549–2432

NEW REPORT ABSTRACTS SECTION

650/2-75-065 PE 1AB013 ROAP/TASK 21 ADD 42 CONTRACT NO. 68-02-1319

Identification of Regenerable Metal Oxide SO_2 Sorbents for Fluidized Coal Combustion Radian Corporation Austin, TX

The report briefly summarizes results of an analysis to identify regenerable metal oxide SO_2 sorbents for fluidized-bed coal combustion. It recommends continued investigation. It discusses both the approach used for the theoretical study of sorption/regeneration processes and implications of the results. The Appendix contains two technical notes that are major products of this effort: Technical Note 200-045-10-01a, 'Thermodynamic Screening of Dry Metal Oxides for High Temperature SO_2 Removal,' giving complete details of the thermodynamic analysis of the sorption process; and Technical Note 200-045-10-02a, 'The Thermodynamics of Chemical Regeneration of Metal Oxide SO_2 Sorbents,' giving detailed methods and results of the identification of sorbents that can be regenerated by reductive decomposition of the sulfate. EPA CONTACT: Turner, P.P. 919-549-2825

650/2-75-066 PE 1AB015 ROAP/TASK 21 AUZ 02 CONTRACT NO. 68-02-1324

Hazardous Emission Characterization of Utility Boilers Midwest Research Institute Kansas City, MO

The report gives results of a field sampling program aimed at quantifying potentially hazardous pollutants in the waste streams of a representative coal-fired utility boiler: a 125-MW boiler (fired with pulverized coal and equipped with a mechanical fly ash collector) at TVA's Widows Creek steam electric generating station. The combustion products identified as potentially hazardous air pollutants included 22 trace elements, nitrates, sulfates, polycyclic organic compounds, and polychlorinated biphenyls. The waste streams sampled included pulverized coal, furnace bottom ash, superheater ash, collection ash, and flue gases at the fly ash collector inlet and outlet. Acceptable mass balance was achieved for about half of the elemental pollutants. Trace metal enrichment was measured. Study results include recommended modifications of sample collection and preparation methods: larger and more frequent samples of coal and bulk ash streams are expected to improve sample representativeness; development of methodologies for estimating bulk ash flows will permit internal checks on mass balances; and routine chemical analysis of NBS standard coal and fly ash will improve quality assurance of the analytical methods. EPA CONTACT: Venezia, R. A. 919-549-2547

670/2-75-014 PE 1DB063 ROAP/TASK 24 AIO 16 CONTRACT NO. 68-03-0145

Feasibility Study of Use of Molten Salt Technology for Pyrolysis of Solid Waste BY V. L. Hammond, and L. K. Mudge, Battelle Pacific Northwest Laboratories Richland, WA

The nation's current solid waste management and energy problems have prompted the Federal Government to evaluate alternative methods for conversion of solid waste to a useful energy source. The subject of this report is an evaluation of a molten salt process for conversion of combustible solid wastes to a combustible gas. Laboratory scale studies were conducted on the pyrolysis of a typical refuse mix in molten sodium carbonate. Gasification of the char that resulted from pyrolysis of solid waste was studied at different conditions using steam, air, and oxygen as the gasification agent. The effects of contaminants that are introduced to the molten salt during processing of municipal refuse on gasification rates and corrosion were determined. Methods for ash removal from the molten salt system was determined. Information obtained in the laboratory studies was used to prepare conceptual process and equipment flow diagrams for evaluation of process economics. The processing of municipal refuse in molten sodium carbonate was found to be technically feasible but economically impractical, pending development of a simplified ash removal process. Use of molten salts is recommended for processing of hazardous materials because complete destruction of wastes is obtained in the molten salt. EPA CONTACT: Oberacker, D. A. 513-684-4493

BIBLIOGRAPHIC SECTION

REPORT NO.		
SAB-73–001	1HA410	**Nitrogenous Compounds in the Environment** Office of Research and Development, Science Advisory Board, EPA Washington, DC **ORDER FROM: NTIS-PB** 240 702/AS $7.00 **GPO-** EP1.2:N63 – $2.20
600/1–75–001	1GB090	**Federal Noise Effects Research: FY 73 – FY 75 — Abstracted 600/9–75–001a** —Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 751/AS $6.25
600/1–75–002	1CA046	**Formation of Halogenated Organics By Chlorination of Water Supplies — Abstracted 600/9–75–001b** —BY J. C. Morris, Harvard University Cambridge, MA **ORDER FROM: NTIS-PB** 241 511/AS $4.25
600/1–75–003	1CA046	**Virus-In-Water Study of Finished Water from Six Communities** BY E. W. Akin, D. A. Brashear, and N. A. Clarke, Health Effects Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 246 042/AS $3.75
600/1–75–004	1AA001	**Molybdenum – A Toxicological Appraisal** BY L. Friberg, P. Boston, G. Nordberg, M. Piscator, and K. H. Robert, Karolinska Institute Stockholm, Sweden **ORDER FROM:** Pending
600/1–75–005	1AA001	**Vapor-Phase Organic Pollutants – Volatile Hydrocarbons and Oxidation Products** National Academy of Sciences Washington, DC **ORDER FROM:** Pending
600/2–73–001		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/2–73–002	1BB034	**Portable Device for Measuring Wastewater Flow in Sewers** BY M. A. Nawrocki, Hittman Associates, Inc. Columbia, MD **ORDER FROM: GPO-**EP1.23/2:600/2–73–002 $1.00 **NTIS-PB** 233 142
600/2–73–003		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/2–73–004	1BB033	**Planned Maintenance Management System for Municipal Wastewater Treatment Plants** BY D. H. Sargent, and D. A. Ruich, Enviro Plan, Inc. College Park, MD **ORDER FROM: GPO-**EP1.23/2:600/2–73–004 $1.55 **NTIS-PB** 233 111
600/2–74–001	1AB013	**Assessment of the Potential of Clean Fuels and Energy Technology** BY E. Hall, P. Choi, and E. Krope, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO-**EP1.23/2:600/2–74–001 $2.60 **NTIS-PB** 239 970/AS $7.00
600/2–74–002	1AB013	**Control of Environmental Impacts From Advanced Energy Sources** BY E. E. Hughes Jr., E. M. Dickson, and R. A. Schmidt, Stanford Research Institute Menlo Park, CA **ORDER FROM: GPO-**EP1.23/2:600/2–74–002 $4.00 **NTIS-PB** 239 450/AS $6.50
600/2–74–003	1BB045	**Development of Phosphate – Free Heavy Duty Detergents** BY A. M. Schwartz, and A. E. Davis, Gillette Research Institute Rockville, MD **ORDER FROM: GPO-**EP1.23/2:600/2–74–003 $2.65 **NTIS-PB** 232 943
600/2–74–004	1AB015	**Selected Characteristics of Hazardous Pollutant Emissions** BY L. J. Duncan, E. L. Keitz, and E. P. Krajeski, Mitre Corporation Washington, DC **ORDER FROM:** Pending
600/2–74–005	1BB033	**Development of a Monthly Technology Bulletin** BY D. A. Sandoski, Franklin Institute Research Laboratories Philiadelphia, PA **ORDER FROM: GPO-**EP1.23/2:600/2–74–005 $1.65 **NTIS-PB** 238 471/AS
600/2–74–006	1BB036	**Study of Feasibility of Herbicide Orange Chlorinolysis** BY E. A. Lavergne, Diamond Shamrock Corporation, T. R. Evans Research Center Painesville, OH **ORDER FROM:** Paul Des Rosiers 202 426–4170
600/2–74–007	1BB036	**Development of a Monthly Industrial Technology Bulletin** BY J. S. Murphy, and D. A. Sandoski, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM:** Pending
600/2–74–008	AB015	**Proceedings, Symposium Control of Fine-Particulate Emissions from Industrial Sources, January 15–18, 1974 San Francisco, CA** Air Pollution Control Division, ORD, EPA Washington, DC **ORDER FROM: NTIS-PB** 235 829 $13.00
600/2–74–009a	1BB036	**State-of-The-Art For The Inorganic Chemicals Industry: Inorganic Pesticides — Abstracted 600/9–75–001e** —BY J. Patterson, Illinois Institute of Technology Chicago, IL **ORDER FROM: NTIS-PB** 240 959/AS $4.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/2-74-009b	1BB036	**State-of-The-Art For The Inorganic Chemicals Industry: Commercial Explosives — Abstracted 600/9-75-001a** --BY J. Patterson, Illinois Institute of Technology Chicago, IL **ORDER FROM: NTIS-PB** 240 960 $4.75
600/2-74-009c	1BB036	**State-of-The-Art For The Inorganic Chemicals Industry: Industrial Inorganic Gases — Abstracted 600/9-75-001a** --BY J. Patterson, Illinois Institute of Technology Chicago, IL **ORDER FROM: NTIS-PB** 240 961/AS $4.25
600/2-75-001	1BB036	**Projects in the Industrial Pollution Control Division – December 1974 — Abstracted 600/9-75-001a** — Industrial Pollution Control Division, EPA Washington, DC **ORDER FROM: NTIS-PB** 243 892/AS $11.25
600/2-75-002	1GB090	**Federal Surface Vehicle Noise Research, Development, and Demonstration Program: FY 73 – FY 75 — Abstracted 600/9-75-001a** --Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 887/AS $4.75
600/2-75-003	1GB090	**Federal Aircraft Noise Research, Development, and Demonstration Programs: FY 73 – FY 75 — Abstracted 600/9-75-001b** --Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 904/AS $7.25
600/2-75-004	1BB034	**Contributions of Urban Roadway Usage to Water Pollution — Abstracted 600/9-75-001b** --BY D. G. Shaheen, Biospherics, Inc. Rockville, MD **ORDER FROM: NTIS-PB** 245 854/AS $10.00
600/2-75-005	1BB033	**Municipal Water Pollution Control Abstracts for 1974 — Abstracted 600/9-75-001b** --BY J. S. Murphy, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: NTIS-PB** 242 834/AS $25.25
600/2-75-006	1AB013	**Detailed Cost Estimates For Advanced Effluent Desulfurization Processes — Abstracted 600/9-75-001b** — BY G. G. McGlamery, R. L. Torstrick, W. J. Broadfoot, J. P. Simpson, L. J. Henson, S. V. Tomlinson, and J. F. Young, Tennessee Valley Authority Muscle Shoals, TN **ORDER FROM: NTIS-PB** 242 541/AS $11.25
600/2-75-007	1BB042	**Impact of Hydrologic Modifications on Water Quality** BY J. Bhutani, R. Holberger, W. E. Jacobsen, P. Spewak, and D. B. Truett, Mitre Corporation McLean, VA **ORDER FROM: NTIS-PB 248 523 $13.00**
600/2-75-008	1GB090	**Federal Machinery Noise Research, Development and Demonstration: FY 73–75** Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 243 523/AS $5.25
600/2-75-009	1AB014	**Oil Shale Air Pollution Control — Abstracted 600/9-75-001b** --BY E. E. Hughes, P. A. Budee, C. V. Fojo, R. G. Murray, and R. K. White, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 242 858/AS $5.25
600/2-75-010	1GB090	**Assessment of the Federal Noise Research, Development, and Demonstration Activities: FY 73 – FY 75** BY E. E. Berkau, S. R. Cordle, F. D. Hart, and G. R. Simon, Noise Technology Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 246 894 $6.00
600/2-75-011	1AB012	**Study of SO_x Control For Selected Industrial Boilers** BY J. Bhutani, C. B. Foster, E. M. Jamgochian, and E. P. Krajeski, Mitre Corporation McLean, VA **ORDER FROM:** Pending
600/2-75-012	1AB013	**Continuous Measurement of Gas Composition From Stationary Sources** BY E. Brooks, D. Luciani, C. Flegal, L. Harnett, M. Kolpin, and R. Williams, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 245 024/AS $5.75
600/2-75-013a	1AB012	**Fractional Efficiency of a Utility Boiler Baghouse – Nuclea Generating Plant** BY R. Bradway, and R. Cass, GCA Corporation Bedford, MA **ORDER FROM:** Pending
600/2-75-014	1AB015	**Sinter Plant Windbox Gas Recirculating System Demonstration** BY D. Pengidore, National Steel Corporation Weirton, WV **ORDER FROM:** Pending
600/2-75-015	1AB012	**Conditioning of Fly Ash With Sulfur Tri-Oxide and Ammonia** BY E. B. Dismukes, Southern Research Institute Birmingham, AL **ORDER FROM:** Pending
600/2-75-016	1AB015	**Incinerator Overfire Mixing Demonstration** BY T. J. Lamb, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 245 015/AS $6.25
600/2-75-017	1AB012	**Effect of Chemical Composition on the Surface Resistivity of Fly Ash** BY R. E. Bickelhaupt, Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 244 885/AS $4.25
600/2-75-018	1AB012	**Study of Flux Force – Condensation Scrubbing of Fine Particules** BY S. Calvert, N. Jhaveri, and T. Huisking, A.P.T., Inc. San Diego, CA **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.

600/2-75-019 1AB014 **Estimating Kinetics of Combustion Especially Reactions Involving NOx and SOx** BY S. W. Benson, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 245 054/AS $5.25

600/2-75-020 1AB020 **Particulate Removal From Gas Streams at High Temperature – High Pressure** BY A. K. Rao, M. P. Schrag, and L. J. Shannon, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 245 858/AS $4.75

600/2-75-021a 1AB012 **Evaluation of Systems for Control of Emissions from Rocket Motors – Phase I** BY S. Stalberg, A.P.T., Inc. San Diego, CA **ORDER FROM: NTIS-PB** 245 590/AS $4.25

600/2-75-022 1AB013 **Effects of Transient Operating Conditions on Steam – Electric Generator Emissions** BY J. S. McKnight, Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 247 701 $5.50

600/2-75-023 1AB013 **Absorption of Sulfur Dioxide in Spray Column and Turbulent Contacting Absorbers** BY C. Y. Wen, and L. S. Fan, West Virginia University Morgantown, WV **ORDER FROM: NTIS-PB** 247 334 $5.50

600/2-75-024 1AA010 **Versatile Gas Filter Correlation Spectrometer** BY D. E. Burch, D. A. Gryvnak, and J. D. Pembrook, Aeroneutronics Ford Corporation Newport Beach, CA **ORDER FROM:** Pending

600/2-75-025 1AA010 **Particle Detector By Mechanical Impact Sensing** BY M. Benarie, and J. Quetier, Institut National de Recherche Chimique Appliquee Vertle Petit, FR **ORDER FROM: NTIS-PB** 247 212/AS $5.00

600/2-75-026a 1BB039 **Control of Water Pollution From Cropland, Vol. I – A Manual for Guideline Development** U.S. Department of Agriculture Washington, DC **ORDER FROM:** Pending

600/2-75-027 1BB034 **Sewer Flow Measurement – A State-of-the Art Assessment** BY P. E. Shelley, and G. A. Kirkpatrick, EG&G, Inc. Rockville, MD **ORDER FROM:** Pending

600/2-75-028 1BB036 **Electrolytic Treatment of Job Shop Metal Finishing Wastewater** BY B. E. Warner, New England Plating Company, Inc. Worcester, MA **ORDER FROM: NTIS-PB** 246 560/AS $6.75

600/2-75-029 1BB043 **Measurements of Active Biomass Concentrations in Biological Waste Treatment Processes — Abstracted 600/9-75-001c** —BY F. G. Pohland, and S. J. Kany, Georgia Institute of Technology Atlanta, GA **ORDER FROM: NTIS-PB** 246 135/AS $6.25

600/2-75-030 1BB043 **Hatfield Township, Pennsylvania, Advanced Waste Treatment Plant — Abstracted 600/9-75-001c** —BY T. W. Greenlund, and F. R. Gaines, Hatfield Township Municipal Authority Colmar, PA **ORDER FROM: NTIS-PB** 245 622/AS $7.50

600/2-75-031 1BB043 **Actinomycetes of Sewage-Treatment Plants — Abstracted 600/9-75-001c** —BY H. A. Lechevalier, Rutgers University New Brunswick, NJ **ORDER FROM: NTIS-PB** 245 914/AS $4.25

600/2-75-032 1BB043 **Bioflocculation and the Accumulation of Chemicals By Floc-Forming Organisms — Abstracted 600/9-75-001c** —BY P. R. Dugan, Ohio State University Columbus, OH **ORDER FROM: NTIS-PB** 245 793/AS $6.25

600/2-75-033 1BB034 **Treatment of Combined Sewer Overflows by Dissolved Air Flotation** BY T. Bursztynsky, D. Feuerstein, W. Maddaus, and C. Huang, Engineering Science, Inc. Berkeley, CA **ORDER FROM: NTIS-PB** 248 186 $8.00

600/2-75-034 1BB043 **Trench Incorporation of Sewage Sludge in Marginal Agricultural Land** BY J. M. Walker, W. D. Burge, R. L. Chaney, E. Epstein, and J. D. Menzies, U.S. Department of Agriculture Beltsville, MD **ORDER FROM: NTIS-PB** 246 561/AS $9.00

600/2-75-035 1BB043 **Aerobic-Stabilization of Waste Activated Sludge – An Experimental Investigation** BY D. B. Cohen, and D. G. Fullerton, Metropolitan Denver Sewage Disposal District No. 1 Commerce City, CO FMC Corporation Englewood, CO **ORDER FROM: NTIS-PB** 246 593/AS $7.50

600/2-75-036 1BC611 **Alternative Septage Treatment Method: Lime Stabilization/ Sand-Bed Dewatering — Abstracted 600/9-75-001c** —BY W. A. Feige, E. T. Oppelt, and J. F. Kreissl, Municipal Environmental Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 245 816/AS $4.25

600/2-75-037 1AB013 **Test Evaluation of Cat-Ox High Efficiency Electrostatic Precipitator — Abstracted 600/9-75-001c** —BY E. M. Jamgochian, N. T. Miller, and R. Reale, Mitre Corporation McLean, VA **ORDER FROM: NTIS-PB** 246 647/AS $5.50

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/2-75-038	1BB043	**Lime Use in Wastewater Treatment: Design and Cost Data** BY E. De La Fuente, L. O. Britt, M. L. Spealman, R. J. Stenquist, and F. J. Zadick, Brown and Caldwell, Construction Engineers Walnut Creek, CA **ORDER FROM: NTIS-PB** 248 181 $9.75
600/2-75-039	1BC611	**Improved Liquid-Solids Separation By An Aluminum Compound in Activated Sludge Treatment** BY C. F. Lenhart, and J. W. Cagle, Greene County Sanitary Engineering Department Xenia, OH **ORDER FROM: NTIS-PB** 248 228 $4.50
600/2-75-040	1DB063	**Evaluation of Hazardous Wastes Emplacement in Mined Openings** BY R. B. Stone, P. L. Aamodt, P. Madden, and M. R. Engler, Fenix and Scisson, Inc. Tulsa, OK **ORDER FROM:** Pending
600/2-75-041	1DB311	**Determination of Incinerator Operating Conditions Necessary for Safe Disposal of Pesticides** BY T. L. Ferguson, F. J. Bergman, G. R. Cooper, R. T. Li, and F. L. Honea, Midwest Research Institute Kansas City, MO **ORDER FROM:** Pending
600/2-75-042	B458	**Control of Hydrocarbon Emissions From Petroleum Liquids — Abstracted 600/9-75-001c** —BY C. E. Burnklin, E. C. Cavanaugh, J. C. Dickerman, S. R. Fernandes, and G. C. Wilkins, Radian Corporation Austin, TX **ORDER FROM: NTIS-PB** 246 650/AS $8.00
600/2-75-043	1DB064	**Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment** BY F. G. Pohland, Georgia Institute of Technology Atlanta, GA **ORDER FROM: NTIS-PB** 248 524 $5.50
600/2-75-044	1DB311	**Summation of Conditions and Investigations for the Complete Combustion of Organic Pesticides** BY B. T. Riley Jr., Independent Management Consultant on Environmental Affairs Cincinnati, OH **ORDER FROM: NTIS-PB** 248 177 $5.00
600/2-75-045	1AB013	**Method for Evaluating SO_2 Abatement Strategies** BY C. T. Chi, E. C. Eimutis, W. H. Hedley, M. V. Jones, R. Jones, and L. B. Mote, Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 246 669/AS $5.00
600/2-75-046	1AB014	**NO_x Combustion Control Methods and Costs for Stationary Sources—Summary Study** BY A. B. Shimizu, R. J. Schreiber, H. B. Mason, G. G. Poe, and S. B. Youngblood, Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 246 750/AS $5.50
600/2-75-047	1BB043	**Demineralization of Wastewater by Electrodialysis** BY H. H. Takenaka, C. L. Chen, and R. P. Miele, Los Angeles County Sanitation District Whittier, CA **ORDER FROM:** Pending
600/2-75-048	1AA002	**Protocol to Characterize Gaseous Emissions as a Function of Fuel and Additive Composition** BY H. M. Dietzmann, Southwest Research Institute San Antonio, TX **ORDER FROM:** Pending
600/2-75-049	1BC611	**Raw Sewage Coagulation and Aerobic Sludge Digestion** BY R. H. Jones, T. A. Burnsztynsky, and J. D. Crane, Holywood, City of Holywood, FL **ORDER FROM:** Pending
600/2-75-050	1AB013	**EPA Alkali Scrubbing Test Facility: Advanced Program (First Progress Report)** BY M. Epstein, Bechtel Corporation San Francisco, CA **ORDER FROM:** Pending
600/2-75-051	1AB013	**Conceptual Design of a Commercial Scale Plant for Chemical Desulfurization of Coal** BY W. F. Nekervis, and E. F. Hensley, Dow Chemical Company Midland, MI **ORDER FROM: NTIS-PB** 248 199 $16.25
600/2-75-052	1AA010	**Collection Efficiency Study of the Proposed Method 13 Sampling Train** BY W. Smith, Entropy Environmentalists, Inc. Research Triangle Park, NC **ORDER FROM: NTIS-PB** 248 103 $4.00
600/2-75-053	1AA010	**Determination of the Magnitude of SO_2, NO, CO_2, and O_2 Stratification in the Ducting of Fossil Fuel Fired Power Plants** BY A. R. Crawford, M. W. Gregord, E. H. Manny, and W. Bartok, Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
600/2-75-054	1AB012	**Overview of EPA/IERL-RTP Scrubber Programs** BY D. W. Cooper, L. W. Parker, and E. Mallove, GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 246 390/AS $5.50
600/2-75-055	1BB036	**Treatment of Textile Wastewater by Activated Sludge and Alum Coagulation** BY T. L. Rinker, Lehigh Valley Industries, Inc. Bangor, PA **ORDER FROM: NTIS-PB** 248 142 $7.75
600/2-75-056	1AB012	**Particulate Collection Efficiency Measurements on Three Electrostatic Precipitators** BY C. B. Nichols, and J. D. McCain, M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 248 220 $5.00

BIBLIOGRAPHIC SECTION

REPORT NO.	
600/2-75-057	1AB013 **Magnesia Scrubbing Process as Applied to an Oil-Fired Power Plant** BY G. Koehler, and J. A. Burns, Chemical Construction Corporation New York, NY **ORDER FROM:** Pending
600/2-75-058	1BB043 **Semi-Automatic Control of Activated Sludge Plants – State of the Technology** BY C. A. Nagel, Los Angeles County Sanitation District Whittier, CA **ORDER FROM:** Pending
600/2-75-059	1AB012 **Proceedings: Symposium on Fine Particles – Minneapolis, Minnesota, May 1975** BY B. J. H. Liu, Minnesota, University of Minneapolis, MN **ORDER FROM:** Pending
600/2-75-060	1BC611 **Ultraviolet Disinfection of Activated Sludge Effluent Discharging to Shellfish Waters** BY J. A. Roeber, and F. M. Hoot, St. Michaels, Town of St. Michaels, MD **ORDER FROM:** Pending
600/2-75-061	1BC611 **Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants** BY S. J. Sedita, Houston Research, Inc. Houston, TX **ORDER FROM: NTIS-PB** 245 683/AS $4.75
600/2-75-062	1BB034 **Helical Bend Combined Sewer Overflow Regulator** BY R. B. Boericke, M. M. Cohn, G. Galina, C. Koch, F. E. Parkinson, T. M. Prus-Chacinski, R. H. Sullivan, and J. E. Ure, American Public Works Association Chicago, IL **ORDER FROM:** Pending
600/2-75-063	1AB013 **Catalytic Desulfurization and Denitrogenation** BY C. N. Satterfield, M. Modell, J. F. Mayer, and J. F. Cocchetto, Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: NTIS-PB** 248 101 $4.50
600/2-75-064	1HB617 **Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows** BY M. E. Jensen, U.S. Department of Agriculture Kimberly, ID **ORDER FROM:** Pending
600/2-75-065	1BB043 **Assessment of Automatic Sewer Flow Samplers – 1975** BY P. E. Shelley, and G. A. Kirkpatrick, EG&G Washington Analytical Services Center, Inc. Rockville, MD **ORDER FROM:** Pending
600/2-75-066	1AB013 **Molecular Sieve Control Process in Sulfuric Acid Plants** BY D. W. Hissong, Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Pending
600/2-75-067	1AB013 **Evaluation of National Boiler Inventory** BY A. A. Putnam, E. L. Kropp, and R. E. Barrett, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 248 100 $4.50
600/2-75-068	1AB013 **Environmental Problem Definition for Petroleum Refineries, Synthetic Natural Gas Plants, and Liquefied Natural Gas Plants** BY E. C. Cavanaugh, J. D. Colley, P. S. Dzierlenga, V. M. Felix, D. C. Jones, and T. P. Nelson, Radian Corporation Austin, TX **ORDER FROM:** Pending
600/2-75-069a	1AB014 **Guidelines for Residential Oil-Burner Adjustments** BY D. W. Locklin, and R. E. Barrett, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 248 292 $4.00
600/2-75-070	EHB447 **EPA Program Status Report – Synthetic Fuels Program** BY B. Truett, R. G. Murray, and G. Foley, Stanford Research Institute Menlo Park, CA Mitre Corporation McLean, VA **ORDER FROM:** Pending
600/2-75-071	1BB034 **Detention Tank for Combined Sewer Overflow – Milwaukee, Wisconsin, Demonstration Project** Milwaukee, City of, Department of Public Works Milwaukee, WI Consoer, Townsend, and Associates Milwaukee, WI **ORDER FROM:** Pending
600/2-75-072	1BB035 **Economical Residential Pressure Sewer System with No Effluent** BY G. F. Hendricks, and S. M. Rees, SIECO, Inc. Columbus, IN Grandview Lot Owners Association Columbus, IN **ORDER FROM:** Pending
600/2-75-073	1AB013 **SO_2 Reduction in Non-utility Combustion Sources – Technical and Economic Comparison of Alternatives** BY P. S. K. Choi, E. L. Kropp, W. E. Ballantyne, M. Y. Anastas, A. A. Putnam, D. W. Hissong, and T. J. Thomas, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 248 051 $9.75
600/2-75-074	1AB012 **Evaluation of a Particulate Scrubber on a Coal-Fired Utility Boiler** BY D. S. Ensor, B. S. Jackson, S. Calvert, C. Lake, D. V. Wallon, R. E. Nilan, K. S. Campbell, T. A. Cahill, and R. G. Flocchini, Meteorology Research, Inc. Altadena, CA **ORDER FROM:** Pending
600/2-75-075	1AB014 **Effect of Fuel Sulfur on NO_x Emissions from Premixed Flames** BY J. O. L. Wendt, and J M. Ekmann, Arizona, University of Tucson, AZ **ORDER FROM: NTIS-PB** 248 099 $5.00
600/2-75-076	1AA010 **Development of Analytical Techniques for Measuring Ambient Atmospheric Carcinogenic Vapors** BY E. D. Pellizzari, Research Triangle Institute Research Triangle Park, NC **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.	
600/2-75-077	1AA010 **Evaluation of the Correlation Spectrometer as an Area SO_2 Monitor** BY R. B. Sperling, Environmental Measurements, Inc. San Francisco, CA **ORDER FROM:** Pending
600/2-75-078	1AB013 **Fuel Gas Environmental Impact: Phase Report** BY F. L. Robson, A. J. Giramonti, W. A. Blecher, and G. Mazzella, United Technologies Research Center Hartford, CT **ORDER FROM:** Pending
600/3-75-001	1BA031 **Fisheries and Energy Production: A Symposium — Abstracted 600/9-75-001a** —BY S. B. Saila, Rhode Island, University of Kingston, RI **ORDER FROM: NTIS-PB** 242 350/AS
600/3-75-002	1BA022 **Second Annotated Bibliography on Biological Effects of Metals in Aquatic Environment (No. 568-1292)** BY R. Eisler, National Marine Water Quality Laboratory, EPA Narragansett, RI **ORDER FROM:** Pending
600/3-75-003a	1AA009 **Adoption of Gausain Plume Model to Incorporate Multiple Station Data Input** BY H. Rosenblum, B. Egan, C. Ingersol, and M. Keefe, Environmental Research and Technology, Inc. Concord, MA **ORDER FROM:** Pending
600/3-75-003b	1AA009 **Adoption of Gausain Plume Model to Incorporate Multiple Station Data Input – Appendices** BY H. Rosenblum, B. Egan, C. Ingersol, and M. Keefer, Environmental Research and Technology, Inc. Concord, MA **ORDER FROM:** Pending
600/3-75-004a	**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/3-75-004b	**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/3-75-005	1AB026 **Inputs of Phosphorus from Precipitation to Lake Michigan** BY T. J. Murphy, and P. V. Doskey, DePaul University Chicago, IL **ORDER FROM:** Pending
600/3-75-006	**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/3-75-007	1BA022 **Metabolism of Mercury Compounds in Microorganisms** BY R. R. Colwell, and J. D. Nelson Jr., Maryland, University of College Park, MD **ORDER FROM:** Pending
600/3-75-008	1BA022 **Secondary Annotated Bibliography of Biological Effects of Metals in Aquatic Environments** BY R. Eisler, and M. Wapner, Environmental Research Laboratory, EPA Narragansett, RI **ORDER FROM: NTIS-PB** 248 211 $11.00
600/3-75-009	1BA031 **Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons—Phase One** BY W. R. Frykberg, G. J. Goodnight, and P. G. Meier, Western Michigan University Kalamazoo, MI **ORDER FROM: NTIS-PB** 245 631/AS $5.25
600/3-75-010a	1AA002 **Annual Catalyst Research Program Report—Summary** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010b	1AA002 **Annual Catalyst Research Program Report Appendices, Volume I** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010c	1AA002 **Annual Catalyst Research Program Report Appendices, Volume II** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010d	1AA002 **Annual Catalyst Research Program Report Appendices, Volume III** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010e	1AA002 **Annual Catalyst Research Program Report Appendices, Volume IV** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010f	1AA002 **Annual Catalyst Research Program Report Appendices, Volume V** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010g	1AA002 **Annual Catalyst Research Program Report Appendices, Volume VI** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010h	1AA002 **Annual Catalyst Research Program Report Appendices, Volume VII** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-010i	1AA002 **Annual Catalyst Research Program Report Appendices, Volume VIII** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/3-75-010j	1AA002	**Annual Catalyst Research Program Report Appendices, Volume IX** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/3-75-011	1DB064	**Compilation of Methodology Used for Measuring Pollution Parameters of Sanitary Landfill Leachate** BY E. S. K. Chian, and F. B. DeWalle, Illinois, University of Urbana, IL **ORDER FROM: NTIS-PB** 248 102 $7.50
600/3-75-012	1BA021	**Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life** BY J. W. Arthur, R. W. Andrew, V. R. Mattson, D. T. Olson, G. E. Glass, B. J. Halligan, and C. T. Wallbridge, Environmental Research Laboratory, EPA Duluth, MN **ORDER FROM:** Pending
600/3-75-013	1BA021	**Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout** BY F. L. Mayer Jr., P. M. Mehrle Jr., and W. P. Dwyer, U.S. Department of the Interior Columbia, MO **ORDER FROM:** Pending
600/3-75-014	1AA006	**Methylation of Mercury in a Terrestrial Environment** BY R. D. Rogers, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 248 221 $3.50
600/3-75-015	1BA025	**Environmental Trace Materials: Computer Coupled Radioactivation Analysis** BY M. H. Feldman, D. E. Cawlfield, and K. V. Byram, Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM:** Pending
600/4-73-001a	1HA325	**Ground Water Pollution Features of Federal and State Laws and Regulations** BY F. Van Der Leeden, Geraghty and Miller, Inc. Port Washington, NY General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA **ORDER FROM: NTIS-PB** 232 116/AS $4.75
600/4-73-001b	1HA325	**Polluted Groundwater: Some Causes, Effects, Controls and Monitoring** BY C. F. Meyer, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA **ORDER FROM: NTIS-PB** 232 117/AS $8.75
600/4-74-001	1HA325	**Polluted Groundwater: A Review of the Significant Literature** BY D. K. Todd, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA **ORDER FROM: NTIS-PB** 235 556/AS $5.75
600/4-74-002		**(No. Cancelled) ORDER FROM:** See 680/4-74-002
600/4-74-003		**(No. Cancelled) ORDER FROM:** See 680/4-74-003
600/4-74-004	1HA326	**Proceedings of Seminar on Methodology for Monitoring the Marine Environment** Office of Monitoring Systems, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/5:600/4-74-004 $4.90 **NTIS-PB** 239 052/AS
600/4-75-001	1HA325	**Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities — Abstracted 600/9-75-001b** —BY J. W. Scotton, and K. T. Mullen, Office of Monitoring Systems, EPA Washington, DC BY J. Whitman, and R. Citron, Smithsonian Institution Cambridge, MA **ORDER FROM: NTIS-PB** 241 757/AS $10.25
600/4-75-002	1AA010	**Low Cost Compact X-Ray Fluorescent Analyzer for On-Site Measurement of Trace Element in Airborne Particulate Emission** BY L. S. Birks, and J. V. Gilfrich, Naval Research Laboratory Washington, DC **ORDER FROM:** Pending
600/4-75-003	1HA327	**Technical Support Document for the Proposed Replacement Reference Method for Nitrogen Dioxide** BY E. C. Ellis, and J. H. Margeson, Quality Assurance Branch, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/4-75-004	1AA009	**Atmospheric Turbulence Properties in the Lowest 300 Meters** BY A. H. Weber, J. S. Irwin, J. P. Kahler, and W. B. Petersen, North Carolina State University Raleigh, NC **ORDER FROM: NTIS-PB** 246 215/AS $6.25
600/4-75-005a	1AA003	**Development of Urban Air Quality Simulation Model With Compatible RAPS Data – Vol. I** BY C. C. Fhir, and L. J. Shiek, IBM Research Laboratory San Jose, CA **ORDER FROM:** Pending
600/4-75-006	1AA009	**Dispersion From Pall Pack** BY W. Klug, Pechnische Hochschule Darmstadt Hochschulfpr, GY **ORDER FROM:** Pending
600/4-75-007	1BA027	**Analytical Quality Assurance for Trace Organic Analysis by Gas Chromatography/Mass Spectrometry** BY J. W. Eichelberger, W. M. Middleton, and W. L. Budde, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 245 823/AS $3.25
600/4-75-008	H120	**Radio Chemical Methodology for Drinking Water — Abstracted 600/9-75-001c** —Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 245 406/AS $4.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/4-75-009	1AA001	**Collection and Analysis of Airborne Suspended Particulate Matter Respirable to Humans for Sulfates and Polycyclic Organics** BY W. M. Henry, and R. I. Mitchell, Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Pending
600/4-75-010	1HA326	**Hydrocarbon Measurement Discrepancies Among Various Analyzers Using Flame-Ionization Detectors** BY F. F. McElroy, and V. L. Thompson, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 247 821 $4.00
600/4-75-011	1HA327	**Analysis of Carbon-14 and Tritium in Reactor Stack Gas** BY S. Gold, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 248 286 $3.50
600/4-75-012	1HA327	**Recommended Design of Sample Intake Systems for Automatic Instrumentation** BY R. P. Lauch, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH **ORDER FROM:** Pending
600/4-75-013	1HA327	**Tentative Reference Method for Measurement of Tritium in Environmental Waters** Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV **ORDER FROM:** Pending
600/4-75-014	1HA327	**Radiation Quality Assurance Intercomparison Studies 1974-1975** Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 248 171 $4.00
600/4-75-015	1BA029	**NATIONAL EUTROPHICATION SURVEY—Data Acquisitions and Laboratory Analysis System for Lake Samples** BY J. W. Mullins, R. N. Snelling, D. D. Moden, and R. G. Seals, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 248 175 $4.00
600/4-75-016a	1AA009	**Turbulence Modeling and Its Application to Atmospheric Diffusion. Part I: Recent Program Development, Verification, and Application** BY W. S. Lewellen, and M. Teske, Aeronautical Research Associates of Princeton, Inc. Princeton, NJ **ORDER FROM:** Pending
600/4-75-016b	1AA009	**Turbulence Modeling and Its Application to Atmospheric Diffusion. Part II: Critical Review of the Use of Invariant Modeling** BY W. S. Lewellen, and M. Teske, Aeronautical Research Associates of Princeton, Inc. Princeton, NJ **ORDER FROM:** Pending
600/5-73-001	1HA094	**Economic Damages to Household Systems From Water Supply Use** BY D. P. Tihansky, Office of Research and Development, Implementation Research Division, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-001 $1.30 **NTIS-PB** 235 716/AS $3.30
600/5-73-002	1RW103	**Bibliography of R&D Research Reports - July 1973** Office of Research and Development, Publications Staff, Office of Program Management, EPA Washington, DC **ORDER FROM:** (Superseded by Current Bibliography)
600/5-73-003	1HA093	**Intermedia Aspects of Air and Water Pollution Control** BY R. Stone, and H. Smallwood, Ralph Stone and Company, Inc. Los Angeles, CA **ORDER FROM: GPO-**EP1.23/3:600/5-73-003 $3.15 **NTIS-PB** 224 812/AS
600/5-73-004	1AB013	**Environmental Consideration in Future Energy Growth** Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS-PB** 239 157/AS $15.25
600/5-73-005	1HA094	**Benefit of Water Pollution Control on Property Values** BY D. M. Dornbusch, and S. M. Barrager, David M. Dornbusch and Company San Francisco, CA **ORDER FROM: GPO-**EP1.23/3:600/5-73-005 $1.60 **NTIS-PB** 228 590/AS
600/5-73-006		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/5-73-007	1HA096	**Critique of Pollution Time Allocation in River Basin Model** BY P. G. Hammer Jr., North Carolina, University of, Center for Urban and Regional Studies Chapel Hill, NC **ORDER FROM: GPO-**EP1.23/3:600/5-73-007 $3.40 **NTIS-PB** 238 489 $5.90
600/5-73-008a	1HA094	**State-of-the-Art Review: Water Pollution Control Benefits and Costs - Volume I** BY S. G. Unger, M. J. Emerson, and D. L. Jordening, Development Planning and Research Associates, Inc. Manhattan, KS **ORDER FROM: GPO-**EP1.23/3:600/5-73-008a $1.45 **NTIS-PB** 228 603/AS
600/5-73-008b	1HA094	**Research Needs and Priorities: Water Pollution Control Benefits and Cost - Volume II** BY D. L. Jordening, and J. K. Allwood, Development Planning and Research Associates, Inc. Manhattan, KS **ORDER FROM: GPO-**EP1.23/3:600/5-73-008b $2.10 **NTIS-PB** 228 602/AS
600/5-73-009	1HA098	**Aesthetics in Environmental Planning** BY M. Bagley, Stanford Research Institute Menlo Park, CA **ORDER FROM: GPO-**EP1.23/3:600/5-73-009 $2.05 **NTIS-PB** 229 574/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/5-73-010	1HA097	**Managing the Environment** Office of Research and Development, Environmental Studies Division, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-010 $7.05 **NTIS-PB** 238 062 $10.25
600/5-73-011	1HA097	**Development of a Decision Room For Environmental Studies** BY J. G. Moore, Data Metric Corporation McLean, VA **ORDER FROM: NTIS-PB** 231 864/AS $4.25
600/5-73-012a	1HA098	**Studies in Environment – Volume I – Summary Report** BY M. Felder, Homer Hoyt Institute Washington, DC BY L. Llewellyn, National Bureau of Standards Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-012a $1.45 **NTIS-PB** 240 786/AS $5.25
600/5-73-012b	1HA098	**Studies in Environment – Volume II – Quality of Life** BY K. E. Horsnback, J. Guttman, H. L. Himmelstein, A. Rappaport, and R. Reyna, Homer Hoyt Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-012b $1.85 **NTIS-PB** 240 787/AS $5.25
600/5-73-012c	1HA098	**Studies in Environment – Volume III – Pollution and the Municipality** BY P. C. Cooper, S. J. Kursch, J. R. Wakeland, M. Van Winkle, and M. A. Zoller, Homer Hoyt Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-012c $1.55 **NTIS-PB** 240 788/AS $5.25
600/5-73-012d	1HA098	**Studies in Environment – Volume IV – Consumption Differentials and the Environment** BY M. B. Olsen, E. E. Bickelhaupt, D. H. Grimsley, C. S. Lewis, and P. Scott, Homer Hoyt Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-012d $0.95 **NTIS-PB** 240 789/AS $4.25
600/5-73-012e	1HA098	**Studies in Environment – Volume V – Outdoor Recreation and the Environment** BY B. Kimmelstein, K. Bildstein, P. Bujak, W. Horton, and M. Savino, Homer Hoyt Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-012e $1.40 **NTIS-PB** 240 790/AS $4.75
600/5-73-013	1HA096	**State of the System (SOS) Model** BY E. R. Williams, Chase, Rosen and Wallace, Inc. Alexandria, VA **ORDER FROM: GPO-**EP1.23/3:600/5-73-013 $3.45 **NTIS-PB** 232 941/AS $10.00
600/5-73-014	1HA094	**Enforcement Economics in Air Pollution Control** BY P. B. Downing, Virginia Polytechnic Institute Blacksburg, VA BY W. D. Watson Jr., Washington Environmental Research Center, Implementation Research Division, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-014 $1.50 **NTIS-PB** 240 963/AS $5.25
600/5-73-015	1HA098	**Promoting Environmental Quality Through Urban Planning and Control** BY E. J. Kaiser, K. Elfers, S. Cohn, P. A. Reichert, M. M. Hufschmidt, and R. Stanland, North Carolina, University of Chapel Hill, NC **ORDER FROM: GPO-**EP1.23/3:600/5-73-015 $5.05 **NTIS-PB** 227 090 $11.50
600/5-73-016	1HA097	**Environmental Management and Local Government** BY S. Carter, M. Frost, C. Rubin, and L. Sumark, International City Management Association Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-73-016 $3.80 **NTIS-PB** 232 955/AS
600/5-73-017		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/5-74-001	1HA096	**Simulation City Approach for Preparation of Urban Area Data Bases** BY A. Lerner, Alan M. Voorhees and Associates McLean, VA **ORDER FROM: GPO-**EP1.23/3:600/5-74-001 $1.25 **NTIS-PB** 244 953/AS $4.75
600/5-74-002	1HA095	**Review of Environmental Impact Assessment Methodologies** BY M. Warner, and E. H. Preston, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO-**EP1.23/3:600/5-74-002 $0.70 **NTIS-PB** 236 609/AS
600/5-74-003	1HA091	**Cost Evaluation of Alternative Air Quality Strategies** BY S. E. Atkinson, and D. H. Lewis, Washington Environmental Research Center, Implementation Research Division, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5-74-003 $1.05 **NTIS-PB** 245 129/AS $4.25
600/5-74-004	1BA030	**Design of Cost-Effective Water Quality Surveillance Systems** BY C. V. Beckers, and S. G. Chamberlain, Raytheon Company Portsmouth, RI **ORDER FROM: GPO-**EP1.23/3:600/5-74-004 $4.05 **NTIS-PB** 232 979/AS
600/5-74-005	1HA095	**Development of Predictions of Future Pollution Problems** BY J. E. Flinn, and R. S. Reiners, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO-**EP1.23/3:600/5-74-005 $2.40 **NTIS-PB** 245 127/AS $7.25
600/5-74-006	1HA095	**Environmental Impact Requirements in the States: NEPA's Offspring** BY T. C. Trzyna, California Public Affairs, Center for Claremont, CA **ORDER FROM: GPO-**EP1.23/3:600/5-74-006 $1.30 **NTIS-PB** 234 384/AS
600/5-74-007	1HA091	**Feasibility of Emission Standards Based on Particle Size** BY L. J. Shannon, P. G. Gorman, and W. R. Park, Midwest Research Institute Kansas City, MO **ORDER FROM: GPO-**EP1.23/3:600/5-74-007 $2.50 **NTIS-PB** 236 160/AS $5.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/5–74–008	1HA096	**Guide to Models in Governmental Planning and Operations** BY P. J. Gass, and R. L. Sisson, Mathematica, Inc. Bethesda, MD **ORDER FROM: NTIS-PB** 245 269/AS $10.50
600/5–74–009	1HA093	**Cost-Effectiveness of a Uniform National Sulfur Emissions Tax** BY T. H. Bingham, P. C. Cooley, M. E. Fogel, and D. R. Johnston, Research Triangle Institute Research Triangle Park, NC **ORDER FROM: GPO-**EP1.23/3:600/5–74–009 $2.25 **NTIS-PB** 236 586/AS
600/5–74–010	1BA030	**Comprehensive Management of Phosphorus Water Pollution** BY D. B. Porcella, A. B. Bishop, and J. C. Andersen, Utah State University Logan, UT **ORDER FROM: GPO-**EP1.23/3:600/5–74–010 $4.05 **NTIS-PB** 232 958/AS
600/5–74–011	1HA094	**Environment: A Bibliography of Social Science and Related Literature** BY D. E. Morrison, K. E. Hornsback, and W. K. Warner, Michigan State University East Lansing, MI **ORDER FROM: GPO-**EP1.23/3:600/5–74–011 $7.45 **NTIS-PB** 237 948/AS $10.45
600/5–74–012	1AA004	**Economic Damages of Air Pollution** BY T. E. Waddell, Washington Environmental Research Center, EPA Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–012 $2.35 **NTIS-PB** 235 701/As $3.95
600/5–74–013	1BA030	**Water Quality Model for a Conjunctive Surface – Groundwater System** BY A. I. Perez, W. C. Huber, J. P. Heaney, and E. E. Pyatt, Florida, University of Gainesville, FL **ORDER FROM: GPO-**EP1.23/3:600/5–74–013 $3.30 **NTIS-PB** 238 491/AS $5.80
600/5–74–014	1BA030	**Estimating Water Quality Benefits** BY D. L. Jordening, Development Planning and Research Associates, Inc. Manhattan, KS **ORDER FROM: GPO-**EP1.23/3:600/5–74–014 $1.50 **NTIS-PB** 245 071/AS $4.75
600/5–74–015	1HA095	**Use of Environmental Analyses on Wastewater Facilities by Local Government** BY J. C. Fensterstock, and D. M. Speaker, Teknekron, Inc. Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–015 $2.70 **NTIS-PB** 237 515/AS $7.00
600/5–74–016	1HA095	**Assessment Methodology for the Environmental Impact of Water Resource Projects** BY M. Warner, J. Moore, S. Chatterjee, D. Cooper, C. Ifeader, W. Lawhon, and R. Reimers, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO-**EP1.23/3:600/5–74–016 $3.00 **NTIS-PB** 240 002/AS $7.50
600/5–74–017	1HA094	**Outpatient Medical Costs Related to Air Pollution in the Portland, Oregon Area** BY J. A. Jaksch, Washington Environmental Research Center, EPA Washington, DC BY H. H. Stoevener, Oregon State University Corvallis, OR **ORDER FROM: GPO-**EP1.23/3:600/5–74–017 $2.00 **NTIS-PB** 237 846/AS $4.00
600/5–74–018	1HA093	**Crop Insurance and Information Services to Control Use of Pesticides** BY J. A. Myranowski, U: F. Ernst, and F. H. Cummings, ABT Associates, Inc. Cambridge, MA **ORDER FROM: GPO-**EP1.23/3:600/5–74–018 $1.55 **NTIS-PB** 238 356/AS $3.55
600/5–74–019	1HA095	**Influences of Wastewater Management on Land Use: Tahoe Basin 1950–1972** BY J. Pepper, and R. Jorgensen, California, University of Santa Cruz, CA **ORDER FROM: GPO-**EP1.23/3:600/5–74–019 $2.50 **NTIS-PB** 240 247/AS $7.00
600/5–74–020	1HA098	**Integrated Multi-media Pollution Model** BY I. Paik, J. Harrington, and S. W. McElroy, Georgetown University Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–020 $3.30 **NTIS-PB** 238 059/AS $5.80
600/5–74–021	1HA098	**Carrying Capacity in Regional Environmental Management** BY A. B. Bishop, H. H. Fullerton, M. McKee, and M. D. Chambers, Utah State University Logan, UT **ORDER FROM: GPO-**EP1.23/3:600/5–74–021 $2.55 **NTIS-PB** 238 080 $7.00
600/5–74–022	1BA030	**Demonstration of a State Water Quality Management Information System** Commonwealth of Pennsylvania Harrisburg, PA **ORDER FROM: GPO-**EP1.23/3:600/5–74–022 $2.05 **NTIS-PB** 237 282/AS
600/5–74–023	1HA095	**California Environmental Quality Act: Innovation in State and Local Decision making** BY T. C. Trzyna, and A. Jokela, California Public Affairs, Center for Claremont, CA **ORDER FROM: GPO-**EP1.23/3:600/5–74–023 $2.00 **NTIS-PB** 240 125/AS $5.75
600/5–74–024	1HA098	**Regional Governmental Arrangements in Metropolitan Areas: Nine Case Studies** BY C. J. Hein, J. M. Keys, and G M. Robbins, Institute for Community Studies Kansas City, MO **ORDER FROM: GPO-**EP1.23/3:600/5–74–024 $3.15 **NTIS-PB** 237 350/AS $5.65
600/5–74–025	1DA315	**Used Oil Law in the U.S. and Europe** BY W. A. Irwin, and R. A. Liroff, Environmental Law Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–025 $3.65 **NTIS-PB** 239 449/AS $6.15

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/5–74–026	1DA315	**Economic Disincentives for Pollution Control: Legal Political and Administrative Dimensions** BY W. A. Irwin, and R. A. Liroff, Environmental Law Institute Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–026 $2.35 **NTIS-PB** 239 340/AS $5.85
600/5–74–027	1HA096	**Model Cities** BY G. Pidot, and J. Sommer, Dartmouth College Hanover, NH **ORDER FROM: GPO-**EP1.23/3:600/5–74–027 $1.25 **NTIS-PB** 239 719/AS $4.25
600/5–74–028	1BA030	**Bibliography of Water Pollution Control Benefits and Costs** BY S. G. Unger, and D. L. Jordening, Development Planning and Research Associates, Inc. Manhattan, KS **ORDER FROM: GPO-**EP1.23/3:600/5–74–028 $2.55 **NTIS-PB** 239 424/AS $5.05
600/5–74–029	1HA093	**Evaluation of Adjustment Assistance Program with Application for Pollution Control** BY A. M. Freeman III, Bowdoin College Brunswick, ME **ORDER FROM: GPO-**EP1.23/3:600/5–74–029 $1.45 **NTIS-PB** 239 423/AS $3.45
600/5–74–030	1BA030	**Evaluation of Marketable Effluent Permit Systems** BY R. J. DeLucia, Meta Systems, Inc. Cambridge, MA **ORDER FROM: GPO-**EP1.23/3:600/5–74–030 $4.15 **NTIS-PB** 239 418/AS $7.15
600/5–74–031	1BA030	**Analysis of Cost Sharing Programs for Pollution Abatement of Municipal Wastewater** BY H. E. Marshall, and R. T. Ruegg, National Bureau of Standards Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–74–031 $2.10 **NTIS-PB** 239 420/AS $4.60
600/5–74–032	1DA315	**Waste Automotive Lubricating Oil Reuse as a Fuel** BY S. Chansky, J. Carroll, B. Kincannon, J. Sahagian, and N. Surprenant, GCA Corporation Bedford, MA **ORDER FROM: GPO-**EP1.23/3:600/5–74–032 $2.85 **NTIS-PB** 241 357 $7.25
600/5–74–033	1HA093	**Economic and Environmental Benefits from Improving Electrical Rate Structures** BY M. Shareskin, Jack Faucett Company Chevy Chase, MD **ORDER FROM: GPO-**EP1.23/3:600/5–74–033 $2.55 **NTIS-PB** 239 451/AS $5.05
600/5–75–001	1BA030	**Evaluation of Alternative Methods For Financing Municipal Waste Treatment Works** BY R. J. DeLucia, L. M. Koppel, D. F. Luecke, S. J. Robinson, P. H. Schafer, D. V. Smith, and J. J. Wagner, Meta Systems, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 241 045/AS $7.25
600/5–75–002	1HA095	**Secondary Impact of Transportation and Wastewater Investments: Review and Bibliography — Abstracted 600/9–75–001a** —BY S. B. Bascom, K. G. Cooper, M. P. Howell, A. C. Makrides, and F. T. Rabe, Environmental Impact Center Newton, MA **ORDER FROM: NTIS-PB** 246 084/AS $8.75
600/5–75–003	1HA098	**Land Use Forms and the Environment – An Executive Summary — Abstracted 600/9–75–001a** —BY B. J. Berry, Chicago, University of Chicago, IL **ORDER FROM: NTIS-PB** 241 093/AS $3.75
600/5–75–004	1BA030	**Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region — Abstracted 600/9–75–001a** —BY A. D. McElroy, F. Y. Chin, and A. Aleti, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 245 896/AS $7.00
600/5–75–005	1HA098	**Performance Controls for Sensitive Lands: A Practical Guide For Local Administrators — Abstracted 600/9–75–001b** —BY C. Thurow, W. Toner, and D. Erley, American Society of Planning Officials Chicago, IL **ORDER FROM: NTIS-PB** 245 177/AS $12.50
600/5–75–006	1BA030	**Environmental Base and Management Study – Atchafalaya Basin, Louisiana — Abstracted 600/9–75–001b** —BY S. M. Gagliano, and J. L. Van Beek, Louisiana State University Baton Rouge, LA **ORDER FROM:** PB No. Pending
600/5–75–007	1HA093	**Financial Incentives and Pollution Control: A Case Study — Abstracted 600/9–75–001b** —BY T. A. Ferrar, A. B. Brownstein, J. D. Simpson, and S. Streiter, Pennsylvania State University University Park, PA **ORDER FROM: NTIS-PB** 241 479 $4.25
600/5–75–008	1HA098	**Land Use Decision Methodology for Environmental Control — Abstracted 600/9–75–001b** —BY K. Wickersham, R. P. Hansen, and A. G. Melcher, Rocky Mountain Center on Environment Denver, CO **ORDER FROM: NTIS-PB** 244 239/AS $7.00
600/5–75–009	1HA098	**Land Use and the Environment: An Anthology of Readings** BY V. Curtis, American Society of Planning Officials Chicago, IL **ORDER FROM: NTIS-PB** 225 521/AS $7.00
600/5–75–010	1DB314	**Measuring External Effects of Solid Waste Management — Abstracted 600/9–75–001b** —BY W. Ramm, R. Schmalensee, R. Ramanathan, and D. Smallwood, Institute for Policy Analysis La Jolla, CA **ORDER FROM: NTIS-PB** 243 407/AS $11.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/5–75–011	1HA098	**Quality of Life Concept – A Potential New Tool For DecisionMakers** BY J. Gerba, Environmental Studies Division, EPA Washington, DC BY E. Bartholomew, Booz-Allen Public Administration Services, Inc. Washington, DC **ORDER FROM: GPO-**EP1.23/3:600/5–75–011 $7.00 **NTIS-PB** 225 089/2 $10.25
600/5–75–012	1HA098	**Minimum Standards For Quality of Life — Abstracted 600/9–75–001c** —BY O. W. Markley, and M. D. Badgley, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 244 808/AS $9.25
600/5–75–013	1HA095	**Secondary Impacts of Transportation and Wastewater Investments: Research Results — Abstracted 600/9–75–001c** —BY S. E. Bascom, K. G. Cooper, M. P. Howell, A. C. Makrides, and F. T. Rabes, Environmental Impact Center Newton, MA **ORDER FROM: NTIS-PB** 246 085/AS $7.25
600/5–75–014	1DA312	**Development of an Economic Analytical Framework for Solid Waste Policy Analysis** BY J. Holland, and J. E. Jacobsen, Environmental Dynamics, Inc. Los Angeles, CA **ORDER FROM: NTIS-PB** 244 705/AS $5.75
600/5–75–015	1HC619	**Quantitative Method for Effluent Compliance Monitoring Resource Allocation — Abstracted 600/9–75–001c** —BY A. I. Cohen, Y. Bar-Shalom, W. Winkler, and G. P. Grimsrud, Systems Control, Inc. Palo Alto, CA **ORDER FROM: NTIS-PB** 245 411/AS $8.50
600/5–75–016	1HA098	**Quality of Life Indicators in U.S. Metropolitan Areas, 1970: A Comprehensive Assessment** BY B. C. Liu, Midwest Research Institute Kansas City, MO **ORDER FROM: GPO** S/N 055–000–00145–6 $7.70 **NTIS-PB** 245 267/AS $9.25
600/5–75–017	1HA097	**Environmental Indices for the Los Angeles Database** BY D. G. Malcolm, J. M. Hemphill, J. E. Gessford, P. Hanson, D. MacDonald, C. Avery, and M. J. Epstein, California State University Los Angeles, CA **ORDER FROM: NTIS-PB** 245 281/AS $7.00
600/5–75–018	1HA098	**Environmental Management in the Malibu Watershed: Institutional Framework** BY W. D. Conn, California, University of Los Angeles, CA **ORDER FROM:** Pending
600/5–75–019	1DA312	**Economic Evaluation of Technical Systems for Scrap Tire Recycling** BY H. C. Goddard, Municipal Environmental Research Laboratory, EPA Cincinnati, OH **ORDER FROM:** Pending
600/6–75–001	1AA001	**Scientific and Technical Assessment Report on Particulate Polycyclic Organic Matter (PPOM)** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 241 799 $4.75
600/6–75–002	1AA001	**Scientific and Technical Assessment Report on Manganese** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 291/AS $4.25
600/6–75–003	1AA001	**Scientific and Technical Assessment Report on Cadmium** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 246 820/AS $4.50
600/6–75–004	1AA001	**Scientific and Technical Assessment Report on Vinyl Chloride and Polyvinyl Chloride** Special Studies Staff, EPA Research Triangle Park, NC **ORDER FROM:** Pending
600/9–74–001	1RW103	**Indexed Bibliography of Office of Research and Development Reports** OR&D, Publications Staff, EPA Washington, DC **ORDER FROM:** (Superseded by Current Bibliography)
600/9–74–002	1RW103	**Indexed Bibliography of Office of Research and Development Reports – Updated to January 1975 — Abstracted 600/9–75–001a** —OR&D, Publications Staff, EPA Washington, DC **ORDER FROM:** OR&D, Technical Information Staff, Cincinnati, OH 45268
600/9–75–001a	1RW103	**OR&D Publications Summary – March 1975** OR&D, Publications Staff, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 782 $5.75
600/9–75–001b	1RW103	**OR&D Publications Summary – June 1975** OR&D, Publications Staff, EPA Washington, DC **ORDER FROM:** Technical Information Staff, Cincinnati, OH 45268
600/9–75–001c	1RW103	**OR&D Publications Summary – September 1975** OR&D, Technical Information Division, EPA Washington, DC **ORDER FROM: NTIS-PB** 247 850 $6.75
600/9–75–001d	1RW103	**OR&D Publications Summary – December 1975** OR&D, Technical Information Division, EPA Washington, DC **ORDER FROM:** Technical Information Staff, Cincinnati, OH 45268

BIBLIOGRAPHIC SECTION

REPORT NO.		
600/9-75-002	1RW103	**OR&D ADP Workshop Proceedings No. 1** BY D. Swink, Office of Research and Development, EPA Washington, DC **ORDER FROM: NTIS-PB** 241 150/AS $9.25
600/9-75-003	1RW103	**Scientific Seminar on Automotive Pollutants** Office of Environmental Sciences, EPA Washington, DC **ORDER FROM:** Wiser, Herbert L. 202-755-0449
600/9-75-004	1RW103	**Proceedings of First US/USSR Symposium on Comprehensive Analysis of the Environment** Office of Research and Development, EPA Washington, DC **ORDER FROM:** Pending
600/9-75-005	1BB466	**Agriculture and Clean Water – Proceedings of a Conference on Agricultural Water Pollution Control** BY C. C. Chappelow, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 246 113/AS $6.25
600/9-75-006	1HA323	**WATER RESOURCES: Utilization and Conservation in the Environment** BY M. C. Blount, Fort Valley State College Fort Valley, GA **ORDER FROM:** Pending
600/9-75-007	1BB033	**Research Needs for the Potable Reuse of Municipal Wastewater** BY K. D. Linstedt, E. R. Bennet, and J. N. English, Colorado, University of Boulder, CO **ORDER FROM:** Pending
600/9-75-008	1AA002	**Report on the Problem of Halogenated Air Pollutants and Stratospheric Ozone** Environmental Science Research Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 247 699 $4.50
650/1-73-001	1EA078	**Training Manual for Teratology** BY K. D. Courtney, and N. Chernoff, Pesticides and Toxic Substances Effects Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 237 370 $3.75
650/1-73-002	1AA007	**Interactions of Various Air Pollutants on Causation of Pulmonary Disease** BY J. D. Fenters, and R. Z. Maigetter, IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 230 933/AS $4.25
650/1-73-003	1AA005	**Investigation of the Effects of Carbon Monoxide on Humans in the Driving Task** Ohio State University Research Foundation Columbus, OH **ORDER FROM: NTIS-PB** 237 370/AS $5.25
650/1-73-004	1AA005	**Normal Carboxyhemoglobin Levels of Blood Donors in the United States** BY R. D. Stewart, Medical College of Wisconsin, Department of Environmental Medicine Milwaukee, WI **ORDER FROM: GPO-**EP1.23/4:650/1-73-004 $3.10 **NTIS-PB** 222 250/AS
650/1-74-001	1AA005	**Use of Panelist as Substitutes for Taxicab Drivers in Carbon Monoxide Exposure** BY A. W. Hoover, and R. M. Albrecht, Columbia University, Division of Environmental Health Sciences New York City, NY **ORDER FROM: NTIS-PB** 228 783 $3.75
650/1-74-002	1EA078	**Metabolism of Carbamate Insecticides** BY U. W. Dorough, Kentucky, University of, Department of Entomology Lexington, KY **ORDER FROM: NTIS-PB** 231 596/AS $8.50
650/1-74-003	1AA002	**Development of Analytic Techniques to Measure Human Exposure to Fuel Additives** BY D. E. Johnson, J. B. Tillery, J. M. Hosenfeld, and J. W. Register, Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 232 124/AS $6.25
650/1-74-004	1AA005	**Health Consequences of Sulfur Oxides: A Report from CHESS,1970-1971** BY E. Caldwell, Human Studies Laboratory, EPA Research Triangle Park, NC **ORDER FROM: GPO** EP 1.2:SU5/2/970-71 $3.10 **NTIS-PB** 234 920 $11.25
650/1-74-005	1AA005	**Effect of Carbon Monoxide on Time Perception** Medical College of Wisconsin, Department of Environmental Medicine Milwaukee, WI **ORDER FROM: NTIS-PB** 232 544/AS $4.25
650/1-74-006	1AA005	**Study of the Effects of Low Levels of Carbon Monoxide Upon Humans Performing Driving Tasks** Harvard University, Guggenheim Center for Aerospace Health and Safety, Boston, MA **ORDER FROM: NTIS-PB** 233 894 $5.25
650/1-74-007	1AA005	**Epidemiology of Chronic Respiratory Disease: A Literature Review** Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS-PB** 237 375 $5.75
650/1-74-008	1AA002	**Literature Search and Analysis of Information Regarding Sources, Uses, Production, Consumption, Reported Medical Cases and Toxicology of Platinum and Palladium** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 238 546/AS $3.75
650/1-74-009	1EA078	**Pesticides Epidemiological Field Studies** Miami, University of, School of Medicine Miami, FL **ORDER FROM: NTIS-PB** 237 347 $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/1-74-010	1AA005	**Reactivity of Polynuclear Aromatic Hydrocarbons with O_2 and NO in the Presence of Light** New York University, Chemistry Department New York, NY **ORDER FROM: NTIS-PB** 238 294/AS $3.75
650/1-74-011	1EA078	**Actions of Pesticides and Other Drugs on the Male Reproductive System** West Virginia University Medical Center Morgantown, WV **ORDER FROM: NTIS-PB** 237 381 $3.75
650/1-74-012	1EA078	**Study of the Ecology of Pesticides** Miami, University of Coral Gables, FL **ORDER FROM: NTIS-PB** 240 173/AS $4.25
650/1-74-013	1AA005	**Use of Leucocyte Metabolism as a Health Effects Indicator** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 240 174/AS $5.25
650/1-75-001	1AA005	**Health and Annoyance Impact of Odor Pollution** California Department of Health Berkeley, CA **ORDER FROM:** Pending
650/1-75-002	1EA078	**Occupational and Environmental Pesticide Exposure Study in South Florida** Miami, University of Miami, FL **ORDER FROM: NTIS-PB** 243 826/AS $4.75
650/1-75-003	1AA005	**Lead: Environmental Sources and Red Cell Toxicity in Urban Children** Nebraska, University of Omaha, NB **ORDER FROM:** Pending
650/1-75-004	1EA078	**Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants** IRT Corporation San Diego, CA **ORDER FROM: NTIS-PB** 243 397/AS $4.25
650/1-75-005	1AA005	**Air Pollution Exposure and Immunoglobulin Levels** Meloy Laboratories, Inc. Springfield, VA **ORDER FROM: NTIS-PB** 242 138 $3.25
650/2-73-001	1AA010	**Chemical and Physical Characterization of Automotive Exhaust Particulate Matter in the Atmosphere (Year Ending June 30, 1972)** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 221 603 $4.75
650/2-73-002	1AA010	**Chemical and Physical Characterization of Automotive Exhaust Particulate Matter in the Atmosphere (Year Ending June 30, 1973)** Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Air Pollution Technical Information Center, RTP, NC 27711
650/2-73-003	1AA010	**Absorption of SO_2 by Alkaline Solutions in Venturi Scrubber Systems** BY C. Y. Wen, and S. Uchida, West Virginia University, Department of Chemical Engineering Morgantown, WV **ORDER FROM: NTIS-PB** 224 202/AS $4.75
650/2-73-004	1AB013	**Fate of Trace Constituents of Coal During Gasification** Institute of Gas Technology, IIT Center Chicago, IL **ORDER FROM: NTIS-PB** 223 001/AS $3.75
650/2-73-005	1AB014	**Program for Reduction of NO_x from Tangential Coal-Fired Boilers – Phase 1** BY C. E. Blakeslee, and A. P. Selker, Combustion Engineering, Inc. Windsor, CT **ORDER FROM: NTIS-PB** 226 547/AS $7.00
650/2-73-005a	1AB014	**Program for Reduction of NO_x from Tangential Coal-Fired Boilers, Phase II** BY A. P. Selker, Combustion Engineering, Inc. Windsor, CT **ORDER FROM: NTIS-PB** 245 162/AS $5.75
650/2-73-005b	1AB014	**Program for Reduction of NO_x from Tangential Coal-Fired Boilers, Phase IIa – NO_x** BY A. P. Selker, Combustion Engineering, Inc. Windsor, CT **ORDER FRCM: NTIS-PB** 246 889/AS $4.00
650/2-73-006	1AA010	**Development of X-Ray Fluorescence Spectroscopy in Element Analysis of Particulate Matter Phase II: Evaluation of Commerical Multiple Crystal Spectrometer Instruments** BY L. S. Birks, and J. V. Gilfrich, Naval Research Laboratory Washington, DC **ORDER FROM: NTIS-PB** 762 061 $3.25
650/2-73-007	1AA010	**Evaluation and Modification of Fluoride Sampling and Analytical Methods** BY R. S. Sholtes, E. U. Meadows, and J. B. Koogler, Environmental Science and Engineering, Inc. Gainesville, FL **ORDER FROM: NTIS-PB** 230 954/AS $5.75
650/2-73-008	1AA010	**Development of a Supplementary Emission Measurements Monitoring System** Thunder Scientific Corporation Albuquerque, NM **ORDER FROM: NTIS-PB** 232 442/AS $3.75
650/2-73-009	1AA010	**Development and Fabrication of Mass Emission Data and Control System for the Stationary Source Simulator** BY P Dimouro, R. Reiner, and H. Dodds, Systems Technology Associates Falls Church, VA **ORDER FROM: NTIS-PB** 232 013/AS $6.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-73-010	1AA010	**Development of Instrumentation for Measurement of Stationary Source Aldehyde Organic Acid and Amine Emissions** BY J. D. Bode, Bendix Research Laboratories Southfield, MI **ORDER FROM: NTIS-PB** 230 884/AS $4.75
650/2-73-011	1AA010	**Direct Determination of Metals in Air** BY J. W. Robinson, Louisiana State University, Department of Chemistry Baton Rouge, LA **ORDER FROM: NTIS-PB** 226 774/AS $4.25
650/2-73-012	1AB013	**Properties of Ammonium Sulfate, Ammonium, and Sulfur Dioxide Solutions in Ammonia Scrubbing Processes** BY J. E. Boone, and J. H. Turner, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 223 000 $3.75
650/2-73-013	1AB013	**EPA Alkali Scrubbing Test Facility: Sodium Carbonate and Limestone Test Results** BY M. Epstein, L. Sybert, and I Raben, Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 225 041/3AS $15.00
650/2-73-014	1AB014	**Investigation of Surface Combustion Concepts for NO$_x$ Control in Utility Boilers and Stationary Gas Turbines** BY W. U. Roessler, E. K. Weinberg, J. A. Drake, U. M. White, and Urban Programs Division El Segundo, CA **ORDER FROM: NTIS-PB** 224 424/AS $5.25
650/2-73-015	1AB014	**Equimolar NO$_2$ Absorption into Magnesia Slurry – A Pilot Feasibility Study** Babcock and Wilson Company Alliance, OH **ORDER FROM: NTIS-PB** 223 579/AS $5.25
650/2-73-016	1AA010	**Development of an Instrumental Monitoring Method for Measurement of Asbestos Concentrations in or Near Sources** BY A. Pattnaik, and J. D. Meakin, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: NTIS-PB** 226 471/AS $4.25
650/2-73-017	1AB013	**Atmospheric Emissions From the Petroleum Refining Industry** BY W. White, National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 225 040/5AS $4.25
650/2-73-018	1AB014	**Catalytic Combustion, a Pollution-Free Means of Energy Conversion** National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 223 002 $3.50
650/2-73-019a	1AB013	**Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume I** Tennessee Valley Authority Chattanooga, TN **ORDER FROM: NTIS-PB** 228 447/AS $7.50
650/2-73-019b	1AB013	**Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume II – Appendices A through H** Tennessee Valley Authority Chattanooga, TN **ORDER FROM: NTIS-PB** 230 384/AS $9.50
650/2-73-019c	1AB013	**Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume III – Appendices I through L** Tennessee Valley Authority Chattanooga, TN **ORDER FROM: NTIS-PB** 230 385/AS $9.50
650/2-73-020	1AB013	**Catalytic Oxidation of Sulfur Dioxide Using Isotopic Tracers** BY J. Happel, and M. Hnatow, New York University, School of Engineering New York City, NY **ORDER FROM: NTIS-PB** 224 305/AS $3.00
650/2-73-021	1AB014	**Proceeding, Coal Combustion Seminar, June 19–20, 1973** National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 224 210/AS $7.00
650/2-73-022	1AA010	**State-of-the-Art: 1971 Instrumentation for Measurement of Particulate Emissions from Combustion Sources** BY G. J. Sem, and J. A. Borgos, Thermo-Systems, Inc. St. Paul, MN **ORDER FROM: NTIS-PB** 231 919/AS $5.25
650/2-73-023	1AA010	**Manual Methods for Sampling and Analysis of Particulate Emissions From Municipal Incinerators** BY J. T. Funkhouser, E. T. Peters, P. L. Levins, A. Doyle, P. Giever, and J. McCoy, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 238 476/AS $8.50
650/2-73-024	1AB013	**Measurement and Characterization of Particles in Wet Scrubbing Process for SO$_x$ Control** Walter C. McCrone Associates, Inc. Chicago, IL **ORDER FROM: NTIS-PB** 225 083/5AS $7.00
650/2-73-025	1AA010	**Application of Odor Technology to Mobil Sources Emission Instrumentation** BY P. L. Levins, and D. A. Kendall, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 228 756 $4.75
650/2-73-026	1AA010	**Remote Sensing of Air Pollution in Urban Areas** BY M. L. Streiff, and C. B. Ludwig, General Dynamics Corporation San Diego, CA **ORDER FROM: NTIS-PB** 230 885/AS $6.25
650/2-73-027	1AA010	**Instrument for Simultaneous Monitoring NO$_x$ and SO$_2$ in Stationary Sources** BY U. C. Tucker, and J. Chung, Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 231 084/AS $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-73-028	1AB013	**Enclosed Coke Pushing and Quenching System Design Manual** BY D. A. Pengidore, National Steel Corporation, Weirton Steel Division Weirton, WV **ORDER FROM: NTIS-PB** 226 418/AS $4.75
650/2-73-029	1AB014	**Interactions of Stack Gas Sulfur and Nitrogen Oxides on Dry Berkau** BY J. W. Brown, D. W. Pershing, J. U. Wasser, and E. E. Berkau, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 224 208/AS $3.25
650/2-73-030	1AA010	**Instrument to Monitor CH_4, CO and CO_2 in Auto Exhaust** BY D. E. Burch, and J. D. Pembrook, Philco-Ford Corporation, Aeronutronic Division Newport Beach, CA **ORDER FROM: NTIS-PB** 226 438/AS $3.75
650/2-73-031	1AB014	**Effectiveness of Selected Fuel Additives in Controlling Pollution Emissions From Residual Oil-Fired Boilers** BY D. W. Pershing, G. B. Martin, E. E. Berkau, and R. E. Hall, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 225 037/1AS $3.75
650/2-73-032	1AA010	**Development of a High-Purity for High Temperature Particulate Sampling and Analysis** BY A. L. Benson, P. L. Levins, A. A. Massucco, and J. R. Valentine, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 230 886/AS $4.75
650/2-73-033a	1AB014	**Aerodynamic Control of Nitrogen Oxides and Other Pollutants From Fossil Fuel Combustion Volume I – Data Analysis and Summary of Conclusions** BY D. R. Shoffstall, and D. H. Larson, Institute of Gas Technology, IIT Center Chicago, IL **ORDER FROM: NTIS-PB** 229 102/AS $4.75
650/2-73-033b	1AB014	**Aerodynamic Control of Nitrogen Oxides and Other Pollutants from Fossil Fuel Combustion Volume II – Raw Data and Experimental Equipment** BY D. R. Shoffstall, and D. H. Larson, Institute of Gas Technology, IIT Center Chicago, IL **ORDER FROM:** Chemical Systems Lab., NERC, RTP, NC 27711
650/2-73-034	1AA010	**Interferometric Instrumentation For Particle Size Analysis** Arnold Research Organization, Inc. Arnold Air Force Station, TN **ORDER FROM: NTIS-PB** 240 584/AS $4.25
650/2-73-035	1AB012	**Field Measurements of Particle Size Distribution Sizing Devices** BY J. D. McCain, K. M. Cushing, and A. V. Bird Jr., Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 226 292/AS $4.75
650/2-73-036	1AB012	**Feasibility of Flux Force/Condensation Scrubbing for Fine Particulate Collection** BY S. Calvert, J. Goldshmid, D. Leith, and N. Jhaveri, A.P.T,. Inc. Riverside, CA **ORDER FROM: NTIS-PB** 227 307 $6.25
650/2-73-037	1AA010	**Feasibility of a CW Lidar Technique for Measurement of Plume Opacity** BY R. A. Ferguson, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 231 992/AS $5.25
650/2-73-038	1AB013	**Proceedings: Flue Gas Desulfurization Symposium 1973** BY E. L. Plyler, and M. A. Maxwell, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 230 901/AS $29.25
650/2-73-039	1AB013	**Chemically Active Fluid-Bed Process for Sulphur Removal During Gasification of Heavy Fuel Oil—Second Phase** Esso Research and Engineering Company Linden, NJ **ORDER FROM:** Chemical Systems Lab., NERC, RTP, NC 27711
650/2-73-040	1AA010	**Development of Range Squared and Off-Gating Modifications for a Lidar System** General Electric Company, Space Sciences Laboratory Philadelphia, PA **ORDER FROM: NTIS-PB** 228 715 $4.25
650/2-73-041	1AB013	**Demetallization of Heavy Residual Oils** BY W. C. Rovesti, and R. H. Wolk, Hydrocarbon Research, Inc. Trenton, NJ **ORDER FROM: NTIS-PB** 227 568 $10.25
650/2-73-041a	1AB013	**Demetallization of Heavy Residual Oils – Phase II** Hydrocarbon Research, Inc. Trenton, NJ **ORDER FROM: NTIS-PB** 241 901/AS $4.25
650/2-73-042	1AB013	**Gasification of Fossil Fuels Under Oxidative, Reductive, and Pyrolytic Conditions** Scientific Research Instruments Corporation Baltimore, MD **ORDER FROM: NTIS-PB** 228 668/AS $7.00
650/2-73-043	1AA008	**Capacity of the Soil as a Natural Sink for Carbon Monoxide** BY R. B. Ingersoll, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 221 641 $3.75
650/2-73-044	1AB013	**Petrograhpic Characteristics and Physical Properties of Marls, Chalks, Shells and Their Calcines Related to Desulfurization of Flue Gases** BY R. D. Harvey, R. R. Frost, and J. Thomas Jr., Illinois State Geological Survey Urbana, IL **ORDER FROM: NTIS-PB** 226 321/AS $5.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-73-045	1AB014	**Study of Combuster Flow Computations and Comparison with Experiment** BY R. F. Anasoulis, and H. McDonald, United Aircraft Research Laboratories East Hartford, CT **ORDER FROM: NTIS-PB** 230 008/AS $4.75
650/2-73-046	1AB015	**Atmospheric Emissions from the Asphalt Industry** BY L. L. Laster, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 222 372/AS $3.75
650/2-73-047	1AB013	**Absorption of SO_2 into Lime Slurries: Absorption Rates and Kinetics** BY J. E. Vivian, Massachusetts Institute of Technology, Department of Chemical Engineering Cambridge, MA **ORDER FROM: NTIS-PB** 230 936/AS $4.25
650/2-73-048a	1AB013	**Evaluation of the Fluidized-Bed Combustion Process Volume I – Pressurized Fluidized-Bed Combustion Process Development and Evaluation** Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 231 162/AS $10.00
650/2-73-048b	1AB013	**Evaluation of the Fluidized-Bed Combustion Process Volume II – Fluidized Bed Boiler Combined-Cycle Power Plant Development—Volume I Appendices** Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 231 163/AS $8.50
650/2-73-048c	1AB013	**Evaluation of the Fluidized-Bed Combustion Process Volume III – Pressurized Fluidized-Bed Boiler Development Plant Design** Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 232 433/AS $8.75
650/2-73-048d	1AB013	**Evaluation of the Fluidized-Bed Combustion Process Volume IV – Fluidized-Bed Gasification Desulfurization** Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 233 101 $10.00
650/2-73-049	1AB013	**Production of Clean Fuel Gas From Bituminous Coal** Consolidation Coal Company, Incorporated, Research Division Library, PA **ORDER FROM: NTIS-PB** 232 695/AS $8.50
650/2-73-050	1AA010	**Methods for Rapid and Accurate Measurement of Nitrate and Sulfate in Atmospheric Particulates** BY D. Williams, J. Driscoll, C. Curtin, and R. Hebert, Walden Research Division of Abcor, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 230 887/AS $5.25
650/2-73-051	1AB013	**Marketing $H_2 SO_4$ from SO_2 Abatement Sources— The TVA Hypothesis** Tennessee Valley Authority, Office of Agricultural and Development Muscle Shoals, AL **ORDER FROM: NTIS-PB** 231 671/AS $5.25
650/2-73-052	1AA010	**Development of Instrumentation for Quantitative Collection of Total Atmospheric Mercury From Ambient Air-Final Report** BY D. J. Sibbett, and R. C. Wade, Geomet, Inc. Rockville, MD **ORDER FROM: NTIS-PB** 232 300/AS $5.75
650/2-73-053	1AB013	**Proceedings of Third International Conference on Fluidized-Bed Combustion** BY B. Tilton, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 231 977/AS $12.50
650/2-74-001	1AB013	**Regenerative Limestone Process for Fluidized – Bed Coal Combustion and Desulfurization** BY R. C. Hoke, M. S. Nutkis, L. A. Ruth, and H. Shaw, Esso Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 231 374 $5.25
650/2-74-002a	1AB014	**Effects of Design and Operating Variables on NO_x from Coal-Fired Furnaces— Phase I** BY W. J. Armento, Babcock and Wilson Company Alliance, OH **ORDER FROM: NTIS-PB** 229 986/AS $5.75
650/2-74-002b	1AB014	**Effects of Design and Operating Variables on NOx from Coal-Fired Furnaces – Phase II** Babcock and Wilson Company Alliance, OH **ORDER FROM: NTIS-PB** 241 283/AS $6.25
650/2-74-003	1AB014	**Study of Air Pollutant Emissions from Residential Heating Systems** BY R. E. Hall, J. H. Wasser, and E. E. Berkau, Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 229 697/AS $5.25
650/2-74-004	1AB013	**Iron Foundry Cupola Recuperative Emission Control Demonstration — Design Manual** BY J. F. Coursey, Flynn and Emrich Company Baltimore, MD **ORDER FROM: NTIS-PB** 227 875 $4.25
650/2-74-005	1AB015	**Indigester Black Liquor Oxidation for Odor Control in Kraft Pulping** BY W. T. McKean, and J. S. Gratzl, North Carolina State University, Department of Wood and Paper Sciences Raleigh, NC **ORDER FROM: NTIS-PB** 228 692 $5.25
650/2-74-006	1AA010	**Device Collection and Assay of Ambient Gases** BY P. Tsang, Bendix Research Laboratories Southfield, MI **ORDER FROM: NTIS-PB** 231 364/AS $5.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-007	1AB012	**Particulate Emissions from Alfalfa Dehydrating Plants — Control Costs and Effectiveness** BY K. D. Smith, American Dehydrators Association Mission, KS **ORDER FROM: NTIS-PB** 227 448/AS $4.50
650/2-74-008a	1AA010	**Evaluation of Odor Measurement Techniques Volume I – Animal Rendering Industry** BY J. A. Wahl, R. A. Duffee, and W. A. Marrone, Research Corporation of New England Wethersfield, CT **ORDER FROM: NTIS-PB** 228 186/AS $4.75
650/2-74-009a	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification Section I: Koppers-Totzek Process** BY E. M. Magee, C. E. Jahnig, and H. Shaw, Esso Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 231 675/AS $4.25
650/2-74-009b	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification; Section I: Synthane Process** BY C. D. Kalfadelis, and E. M. Magee, Esso Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 237 113/AS $4.75
650/2-74-009c	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processess Gasification; Section I; Lurgi Process** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 237 694/AS $4.75
650/2-74-009d	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification; Section I: CO2 Acceptor Process** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 241 141/AS $4.25
650/2-74-009e	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Liquefaction: Section I. COED Process** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 240 371/AS $4.25
650/2-74-009f	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Liquefaction: Section 2. SRC Process** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 241 792/AS $4.75
650/2-74-009g	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification: Section 5. BI-GAS Process** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 243 694/AS $4.25
650/2-74-009h	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 6. HYGAS Process** BY C. E. Jahnig, Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
650/2-74-009i	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 7. U-Gas Process** BY C. E. Jahnig, Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
650/2-74-009j	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 8. Winkler Process** BY C. E. Jahnig, Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
650/2-74-009k	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Coal Treatment: Section 1. Meyers Process** BY E. M. Magee, Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 246 311/AS $4.00
650/2-74-0091	1AB013	**Evaluation of Pollution Control in Fossil Fuel Conversion Processes (Analytical Test Plan)** BY C. D. Kalfadelis, E. M. Magee, G. E. Milliman, and T. D. Searl, Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
650/2-74-010	1AB013	**EPA Alkali Scrubbing Test Facility: Limestone Wet Scrubbing Test Result** BY M. Epstein, L. Sybert, S. C. Wang, and C. C. Leiro, Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 232 359/AS $7.50
650/2-74-011	1AB014	**Thermal Radiation Modeling for Pollution Predictions** BY G. R. Whitacre, R. A. McCann, and A. A. Putmann, Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS-PB** 229 666/AS $4.25
650/2-74-012	1AB013	**Evaluation of the Regenerative Pressurized Fluidized-Bed Combustion Process** BY T. E. Johnson, A. G. Sliger, P. A. Refrancois, and D. O. Moore, M. W. Kellogg Company Houston TX **ORDER FROM: NTIS-PB** 233 429/AS $4.75
650/2-74-013	1AA010	**Performance Specifications for Stationary-Source Monitoring Systems for Gases and Visible Emissions** BY J. S. Nader, W. Conner, and F. Jaye, National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 230 934/AS $7.00
650/2-74-014	1AA010	**Development of Low Pressure Impactor** Anderson 2000, Inc. Atlanta, GA **ORDER FROM: NTIS-PB** 237 417/AS $4.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-015	1AA010	**Progress in Instrumentation and Techniques for Measurement of Air Pollutants** BY B. Tilton, Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 231 568/AS $3.25
650/2-74-016	1AA010	**Sampling Interface for Quantitative Transport of Aerosols — Abstracted 600/9-75-001b** —IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 240 434/AS $5.75
650/2-74-017	1AB013	**Kinetic Mechanisms Governing the Fate of Chemically Bound Sulfur and Nitrogen in Combustion** BY C. V. Sternling, and J. O. Wendt, Shell Development Company Emeryville, CA **ORDER FROM: NTIS-PB** 230 895/AS $5.75
650/2-74-018		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
650/2-74-019	1AA003	**Development and Testing of An Air Monitoring System** BY C. E. Decker, J. B. Tommerdahl, and T. M. Royal, Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 231 666/AS $7.25
650/2-74-020	1AA010	**Feasibility Study of the Use of Resonance Scattering for the Remote Detection of SO_2** United Aircraft Research Laboratories East Hartford, CT **ORDER FROM:** Pending
650/2-74-021	1AB013	**Efficiencies in Power Generation** Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 234 160/AS $3.75
650/2-74-022	1AB013	**Coke Charging Pollution Control Demonstration** American Iron and Steel Institute New York, NY **ORDER FROM: NTIS-PB** 234 355/AS $9.25
650/2-74-023	1AB014	**Flame Characterization Probes** BY R. C. Kesselring, Rocketdyne, Division of Rockwell International Corporation Canoga Park, CA **ORDER FROM: NTIS-PB** 232 287/AS $7.00
650/2-74-024	1AB013	**Development of Sampling and Analytical Methods of Lime/Limestone Wet Scrubbing Tests** Radian Corporation Austin, TX **ORDER FROM: NTIS-PB** 236 644/AS $7.00
650/2-74-025	1AB013	**Applicability of the Meyers Process of Chemical Desulfurization of Coal: Initial Survey of Fifteen Coals** BY A. A. Lee, J. W. Hamersma, M. L. Kraft, C. A. Flegal, and R. A. Meyers, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 232 083/AS $7.00
650/2-74-025a	1AB013	**Applicability of the Meyers Process for Chemical Desulfurization of Coal: Survey of 35 Coals** BY J. W. Hamersma, and M. L. Kraft, TRW Systems Group Redondo Beach, CA **ORDER FROM:** Pending
650/2-74-026	1AB015	**Investigation of Particulate Emission from Oil-Fired Residential Heating Units** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 237 355/AS $3.75
650/2-74-027	1AB012	**Control Technology for Fine Particulate Emissions** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 236 646/AS $5.75
650/2-74-028	1AB012	**Lone Star Steel Steam-Hydro Air Cleaning System Evaluation** BY J. D. McCain, and W. B. Smith, M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 232 436/AS $3.75
650/2-74-029	1AA010	**Compact Sampling System for Collection of Particulates from Stationary Sources — Abstracted 600/9-75-001b** —General Electric Company Philadelphia, PA **ORDER FROM: NTIS-PB** 240 398/AS $5.25
650/2-74-030	1AB013	**Interpretative Compilation of EPA Studies Related to Coal Quality and Cleanability** BY L. Hoffman, J. B. Truett, and S. J. Aresco, Mitre Corporation McLean, VA **ORDER FROM: NTIS-PB** 232 011/AS $8.50
650/2-74-031a	1AB014	**Application of Holographic Methods to the Measurement of Flames and Particulate - Volume I** TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 235 674/AS $3.75
650/2-74-031b	1AB014	**Application of Holographic Methods to the Measurement of Flames and Particulate - Volume II** TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 235 675/AS $4.50
650/2-74-032	1AB014	**Design Trends and Operating Problems in Combustion Modification of Industrial Boilers** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 235 712/AS $5.50
650/2-74-033	1AB013	**Solid Waste Disposal Final Report** Radian Corporation Austin, TX **ORDER FROM: NTIS-PB** 233 144/AS $9.25
650/2-74-034	1AB012	**Optical Measurements of Smoke Particle Size Generated by Electric Arcs** Colorado State University Fort Collins, CO **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-035	1AB013	**Evaluation of Equations for Designing Ammoniacal Scrubbers to Remove Sulfur Oxides from Waste Gas** BY L. I. Griffin, National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 232 527 $4.25
650/2-74-036	1AB012	**Braxton Sonic Agglomerator Evaluation** BY R. Dennis, R. Bradway, and R. Cass, GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 234 146/AS $7.25
650/2-74-037a	1AB013	**Disposal of By-products from Non-regenerable Flue Gas Desulfurization Systems: Initial Report** Aerospace Corporation El Segundo, CA **ORDER FROM: NTIS-PB** 237 114/AS $9.25
650/2-74-038	1AB014	**Combustion Control of Pollutants from Multiburner Coal-fired System** BY C. McCann, J. Demeter, R. Snedden, and D. Bienstock, U.S. Bureau of Mines Pittsburgh, PA **ORDER FROM: NTIS-PB** 233 037/AS $4.75
650/2-74-039	1AA010	**Evaluation of Instrumentation for Monitoring Total Mercury Emissions from Stationary Sources** Walden Research Division of Abcor, Inc. Walden, MA **ORDER FROM: NTIS-PB** 238 323/AS $5.75
650/2-74-040	1AA010	**Synthesis and Purification of Carcinogenic Polynuclear Aromatic Hydrocarbon Standards** Allied Chemical Corporation Morristown, NJ **ORDER FROM: NTIS-PB** 240 201/AS $4.25
650/2-74-041	1AB013	**Effect of Gas Turbine Efficiency and Fuel Cost on Cost Producing Electric Power** Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 234 159/AS $3.75
650/2-74-042		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
650/2-74-043	1AB012	**Proceedings: Symposium on the Use of Fabric Filters for the Control of Submicron Particulates (April 8–10, 1974, Boston, Ma.)** GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 237 629/AS $9.25
650/2-74-044	1AA010	**Isolation of Hayfever Antigens from Short Ragweed Pollen** Worthington Biochemical Corporation Freehole, NJ **ORDER FROM: NTIS-PB** 237 691/AS $3.25
650/2-74-045	1AB014	**Kinetic Mechanisms of Methane/Air Combustion with Pollutant Formation** Ultrasystems, Inc. Irvine, CA **ORDER FROM: NTIS-PB** 234 149/AS $5.25
650/2-74-046a	1AA010	**Development of Gas Laser System to Measure Trace Gases by Longpath Absorption Techniques: Volume I – Gas Laser System Modification for Ozone Monitoring Final Report** BY S. E. Craig, D. R. Morgan, D. L. Roberts, and L. R. Snowman, General Electric Company Pittsfield, MA **ORDER FROM: NTIS-PB** 236 678/AS $5.75
650/2-74-046b	1AA010	**Development of A Gas Laser System to Measure Trace Gases by Long Path Absorption Techniques: Volume II – Field Evaluation of Gas Laser System for Ozone Monitoring Final Report** BY W. A McClenny, F. W. Baity Jr., R. E. Baumgardner Jr., and R. A. Gray, Chemistry and Physics Laboratory, EPA, Research Triangle Park, NC BY R. J. Gillmeister, and L. R. Snowman, General Electric Company Pittsfield, MA **ORDER FROM: NTIS-PB** 236 679/AS $4.25
650/2-74-047	1AB014	**Design of an Optimum Distillate Oil Burner for Control of Pollutant Emissions** Rocketdyne, Division of Rockwell International Canoga Park, CA **ORDER FROM: NTIS-PB** 236 647/AS $16.50
650/2-74-048	1AB015	**Development of an Approach to Identification of Emerging Technology and Demonstration Opportunities** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 233 646 $8.50
650/2-74-049a	1AB013	**Pilot-Plant Study of an Ammonia Absorption Ammonium Bisulfate Regeneration Process, Topical Report Phases I and II** Tennessee Valley Authority Chattanooga, TN **ORDER FROM: NTIS-PB** 237 171/AS $7.00
650/2-74-050	1AB013	**Measurement of Entrained Liquid Levels in Effluent Gases from Scrubber Demisters** BY L. D. Johnson, and R. M. Statnick, National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 223 739 $3.25
650/2-74-051	1AB014	**Assessment of the Applicability of Automotive Emission Control Technology to Stationary Engines** Aerospace Corporation Los Angeles, CA **ORDER FROM: NTIS-PB** 237 115/AS $10.00
650/2-74-052	1AB013	**Study of Potential Problems and Optimum Opportunities in Retrofitting Industrial Processes to Low and Intermediate Energy Gas from Coal** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 237 116/AS $5.75
650/2-74-053	1AB013	**Particulate Collection Study, EPA/TVA Full-Scale Dry Limestone Injection Tests** Cottrell Environmental Systems, Inc. Division of Research-Cottrell, Inc. Bound Brook, NJ **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-054	1AB013	**Occurrence and Distribution of Potentially Volatile Trace Elements in Coal** Illinois State Geological Survey Springfield, IL **ORDER FROM: NTIS-PB** 238 091/AS $4.75
650/2-74-055	1AA010	**Design, Construction, and Testing of a Commercial Prototype Disc Diluter** Monsanto Research Corporation Dayton, OH **ORDER FROM:** Pending
650/2-74-056	1AA003	**Development of an Acetylene Monitor at the PPB Level** Beckman Instruments, Inc. Anaheim, CA **ORDER FROM: NTIS-PB** 238 474/AS $3.75
650/2-74-057	1AB013	**Reduction of Atmospheric Pollution by the Application of Fluidized-Bed Combustion** Argonne National Laboratory Argonne, IL **ORDER FROM: NTIS-PB** 237 366/AS $5.75
650/2-74-058	1AB012	**Applying Fabric Filtration to Coal Fired Industrial BoilersA Preliminary Pilot Scale Investigation** Enviro-Systems and Research, Inc. Roanoke, VA **ORDER FROM: NTIS-PB** 237 117/AS $4.75
650/2-74-058a	1AB012	**Applying Fabric Filtration to Coal Fired Industrial Boilers (A Pilot Scale Investigation)** BY J. D. McKenna, J. C. Mycock, and W. O. Lipscomb, Enviro-Systems and Research, Inc. Roanoke, VA **ORDER FROM: NTIS-PB** 245 186/AS $7.25
650/2-74-059	1AA010	**NO_2 Measuring System** Aerospace Corporation Los Angeles, CA **ORDER FROM: NTIS-PB** 234 255/AS $3.75
650/2-74-060	1AA002	**Development of a Methodology for the Assessment of the Effects of Fuels and Additives on Control Devices** Dow Chemical Company Midland, MI **ORDER FROM:** Pending
650/2-74-061	1AA003	**Determination of Effect of Particulate Exhaust Emissions of Additives and Impurities in Gasoline** Dow Chemical Company Midland, MI **ORDER FROM:** Pending
650/2-74-062	1AB013	**Coke Oven Charging Emission Control Test Program—Volume I** Mitre Corporation McLean, VA **ORDER FROM: NTIS-PB** 237 628/AS $7.00
650/2-74-062a	1AB013	**Coke Oven Charging Emission Control Test Program – Supplemental Observations** Mitre Corporation McLean, VA **ORDER FROM: NTIS-PB** 237 697/AS $5.25
650/2-74-063	1AB015	**Adsorption of Odorous Pollutants by Active Manganese Dioxide** Illinois, University of School of Chemical Sciences Urbana, IL **ORDER FROM: NTIS-PB** 234 458/AS $3.75
650/2-74-064	1AB013	**Instrumental Analyses for Wet Scrubbing Processes** TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 240 616/AS $9.25
650/2-74-065	1AA010	**Advanced Prototype Direct Reading Instrument for Particulate Mass Measurement** Industrial Nucleonics Corporation Columbus, OH **ORDER FROM:** Pending
650/2-74-066	1AB014	**Field Testing: Application of Combustion Modifications to Control NO_x Emissions for Utility Boilers** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 237 344/AS $7.25
650/2-74-067	1AB012	**Design Development and Fabrication of a Prototype High-Vol. Particulate Mass Sampling Train** Aerotherm/Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 245 196/AS $3.75
650/2-74-068	1AA010	**Design, Fabricate, and Demonstrate an Instrument for Assaying Benzo (a) Pryrene** BY E. E. Green, R. J. Wheeler, S. M. Billedeau, and H. P. Burchfiled, Gulf South Research Institute New Iberia, LA **ORDER FROM:** Pending
650/2-74-069	1AA010	**Instrumentation and Methodology for the Assay of Polynuclear Aromatic Hydrocarbons** Exxon Research and Engineering Company Linden, NJ **ORDER FROM:** Pending
650/2-74-070	1AA010	**Effects of Nozzle Design and Sampling Techniques on Aerosol Measurements** ARO Inc. Arnold Air Force Station, TN **ORDER FROM: NTIS-PB** 243 588/AS $4.75
650/2-74-071a	1AB013	**Improved Air Pollution Control for Kraft Recovery Boiler: Modified Recovery Boiler No. 3** Hoerner Waldorf Corporation St. Paul, MN **ORDER FROM: NTIS-PB** 237 627/AS $7.00
650/2-74-071b	1AB013	**Improved Air Pollution Control for a Kraft Recovery Boiler: Recovery Boiler No. 4** Hoerner Waldorf Corporation St. Paul, MN **ORDER FROM: NTIS-PB** 240 442/AS $4.75
650/2-74-072	1AB013	**Sasol Type Process for Gasoline, Methanol, SNG, and Low-BTU Gas from Coal** BY F. K. Chan, M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 237 670/AS $4.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-073	**1AB013**	**St. Louis/Union Electric Refuse Firing Demonstration Air Pollution Test Support** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 237 630/AS $5.25
650/2-74-074	**1AB012**	**Influence of Fly Ash Compositional Factors on Electrical Volume Resistivity** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 237 698/AS $3.75
650/2-74-075	**1AB012**	**Charged Droplet Scrubbing of Submicron Particulate** Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: NTIS-PB** 241 262/AS $8.50
650/2-74-076	**1AB013**	**Coke Oven Smokeless Pushing System Design Manual** Ford Motor Company Dearborn, MI **ORDER FROM: NTIS-PB** 239 491/AS $4.25
650/2-74-077	**1AB013**	**Lime/Limestone Scrubbing in a Pilot Dustraxtor – Key West** Engineering Science, Inc. McLean, VA **ORDER FROM: NTIS-PB** 237 622/AS $6.25
650/2-74-078a	**1AB014**	**Field Testing: Application of Combustion Modifications to Control Pollutant Emissions from Industrial Boilers – Phase I** KVB Engineering, Inc. Tustin, CA **ORDER FROM: NTIS-PB** 238 920/AS $7.25
650/2-74-079	**1AB012**	**Techniques for Measuring Fly Ash Resistivity** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 244 140/AS $3.75
650/2-74-080	**1AB013**	**Statistical Concepts for Design Engineers — Abstracted 600/9-75-001b** —Oklahoma State University Stillwater, OK **ORDER FROM: NTIS-PB** 240 694/AS $6.25
650/2-74-081	**1AB012**	**Seminar on Electrostatics and Fine Particles — September 1973** National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 236 676 $4.75
650/2-74-082	**1AB013**	**Refinery Catalytic Cracker Reginerator SO_x Control Process Survey** Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 237 756/AS $7.50
650/2-74-083	**1AB012**	**Dynactor Scrubber Evaluation** GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 236 905 $5.25
650/2-74-083a	**1AB012**	**Dynactor Scrubber Evaluation — Abstracted 600/9-75-001b** —GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 243 365/AS $5.25
650/2-74-084	**1AB015**	**Odor Removal from Air by Adsorption on Charcoal** Kansas State University Manhattan, KS **ORDER FROM: NTIS-PB** 236 928/AS $5.25
650/2-74-085a	**1AB013**	**Control of Sulfur Dioxide Emissions from Copper Smelters: Volume I – Steam Oxidation of Pyritic Copper Concentrates** Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 237 748/AS $4.75
650/2-74-085b	**1AB013**	**Control of Sulfur Dioxide Emissions from Copper Smelters: Volume II – Hydrogen Sulfide Production from Copper Concentrates** Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 237 928/AS $5.25
650/2-74-086a	**1AB013**	**Procedures for Measurement in Stratified Gases – Volume I** Abcor, Incorporated, Walden Research Division Cambridge, MA **ORDER FROM: NTIS-PB** 241 837/AS $8.75
650/2-74-086b	**1AB013**	**Procedures for Measurement in Stratified Gases – Volume II, Appendices** Abcor, Incorporated, Walden Research Division Cambridge, MA **ORDER FROM: NTIS-PB** 241 838/AS $7.25
650/2-74-087	**1AB015**	**Identification and Assessment of Asbestos Emissions from Incidental Sources of Asbestos** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 241 999/AS $9.50
650/2-74-088	**1AB015**	**Assessment of Particle Control Technology for Enclosed Asbestos Sources** IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 239 926/AS $5.75
650/2-74-089	**1AA010**	**Investigation of Extractive Sampling Interface Parameters** Abcor, Incorporated, Walden Research Division Cambridge, MA **ORDER FROM: NTIS-PB** 242 515/AS $7.00
650/2-74-090	**1AB015**	**Characterization and Control of Asbestos Emissions from Open Sources — Abstracted 600/9-75-001b** —IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 238 925/AS $7.25
650/2-74-091	**1AB013**	**Systems Analysis Requirements for Nitrogen Oxide Control of Stationary Sources** Aerotherm/Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 237 367/AS $6.25

BIBLIOGRAPHIC SECTION

REPORT NO.	
650/2-74-092	1AB012 **Sodium Conditioning to Reduce Fly Ash Resistivity** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 236 922/AS $3.25
650/2-74-093	1AB012 **Fine Particle Scrubber Performance Tests** A.P.T., Inc. Riverside, CA **ORDER FROM: NTIS-PB** 240 325/AS $8.50
650/2-74-094	1AA010 **Infrared Gas Filter Correlation Instrument for In-Situ Measurement of Gaseous Pollutants** Philco-Ford Corporation Newport Beach, CA **ORDER FROM: NTIS-PB** 239 467/AS $4.25
650/2-74-095	1AB015 **Fluoride Emissions from Phosphoric Acid Plant Gypsum Ponds** North Carolina State University Raleigh, NC **ORDER FROM: NTIS-PB** 241 144/AS $9.50
650/2-74-096	1AA002 **Effect of Fuel Additives Study** Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS-PB** 240 169/AS $4.25
650/2-74-097	1AB015 **Vinyl Chloride – An Assessment of Emissions Control Techniques and Costs** BY B. H. Carpenter, Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 237 343/AS $4.75
650/2-74-098	1AB013 **Evaluation of R&D Investment Alternatives for SOx Air Pollution Control Processes** M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 238 263/AS $8.75
650/2-74-098a	1AB013 **Evaluation of R&D Investment Alternatives for SOx Air Pollution Control Processes, Part 2** BY S. Caceres, L. Do, N. Gonzalez, H. A. Kahn, G. K. Mathur, and J. J. O'Donnell, M. W. Kellogg Company Houston, TX **ORDER FROM:** Pending
650/2-74-099	1AB013 **Environmental Considerations for Oil Shale Development** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 241 942/AS $5.75
650/2-74-100	1AB012 **Process Modifications for Control of Particulate Emissions from Stationary Combustion, Incineration, and Metals** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 237 422 $5.25
650/2-74-101	1AB015 **Atmospheric Emissions from Asphalt Roofing Processes** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 238 445/AS $6.25
650/2-74-102	1AB012 **Particulate Sizing Techniques for Control Device Evaluation** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 240 670/AS $5.75
650/2-74-102a	1AB012 **Particulate Sizing Techniques for Control Device Evaluation** BY W. B. Smith, K. M. Cushing, and J. D. McCain, Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 245 184/AS $5.75
650/2-74-103	1AB012 **Design, Fabrication, and Installation of a Particulate Aerodynamic Test Facility** Aerotherm/Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 245 197/AS $5.25
650/2-74-104	1AB013 **Reduction of Atmospheric Pollution by the Application of Fluidized-Bed Combustion and Regeneration of Sulfur-Containing Additives** Argonne National Laboratory Argonne, IL **ORDER FROM: NTIS-PB** 237 754/AS $5.75
650/2-74-105	1AA008 **Analysis of the Composition of the Atmosphere in the Los Angeles Basin** Abcor, Incorporated, Walden Research Division Cambridge, MA **ORDER FROM: NTIS-PB** 239 466/AS $4.75
650/2-74-106	1AB015 **System Analysis of Air Pollutant Emissions from the Chemical/ Plastics Industry** Foster D. Snell, Inc. Florham Park, NJ **ORDER FROM: NTIS-PB** 239 880/AS $8.75
650/2-74-107	1AB015 **Characterization of Atmospheric Emissions from Polyurethane Resin Manufacture** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 237 420/AS $4.75
650/2-74-108	1AB012 **Wet Scrubber Liquid Utilization** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 237 749/AS $5.75
650/2-74-109	1AB013 **Chemically Active Fluid-Bed Process for Sulphur Removal During Gasification of Heavy Fuel Oil – Second Phase** Esso Research and Engineering Company Berkshire, England **ORDER FROM: NTIS-PB** 240 632/AS $13.25
650/2-74-110	1AB015 **Mathematical Simulation of an Adsorber for Pollutant Removal — Abstracted 600/9-75-001b** —Kansas State University Manhattan, KS **ORDER FROM: NTIS-PB** 239 331/AS $4.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-74-111	1AB012	**Measurement of Sulfur Dioxide, Particulate, and Trace Elements in Copper Smelter Converter and Roaster/Reverberatory Gas Streams** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 095/AS $4.75
650/2-74-112	1AB012	**EPA Fine Particle Scrubber Symposium (San Diego, 5/28-30/74)** A.P.T., Inc. Riverside, CA **ORDER FROM: NTIS-PB** 239 335/AS $8.50
650/2-74-113	1AA010	**Remote Sensing of Pollutants – Computerized Reduction of Long-Path Absorption Data** Wave Propagation Laboratory, NOAA/ERL Boulder, CO **ORDER FROM: NTIS-PB** 240 168/AS $7.25
650/2-74-114	1AB012	**Conditioning of Fly Ash with Sulfamic Acid, Ammonium Sulfate, and Ammonium Bisulfact — Abstracted 600/9-75-001b** —Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 238 922/AS $4.25
650/2-74-115	1AB015	**Trace Pollutant Emissions from the Processing of Metallic Ores** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 238 655/AS $8.75
650/2-74-116	1AB012	**Changes in the Global Energy Balance** M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 238 075/AS $3.75
650/2-74-117	1AB012	**Sources and Characterization of Fine Particulate Test Dusts — Abstracted 600/9-75-001b** —Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 238 924/AS $5.25
650/2-74-118	1AB013	**Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology (May 1974, St. Louis, Missouri) — Abstracted 600/9-75-001b** —Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 304/AS $10.00
650/2-74-119a	1AB013	**Entrainment Separators for Scrubbers – Initial Report** A.P.T., Inc. Riverside, CA **ORDER FROM: NTIS-PB** 241 189/AS $9.25
650/2-74-119b	1AB013	**Entrainment Separators for Scrubbers – Final Report** BY S. Calvert, S. Yung, and J. Leung, A.P.T., Inc. San Diego, CA **ORDER FROM: NTIS-PB** 248 050 $7.75
650/2-74-120	1AA010	**In-Stack Transmissometer Measurement of Particulate Opacity and Mass Concentration — Abstracted 600/9-75-001b** —Philco-Ford Corporation Newport Beach, CA **ORDER FROM: NTIS-PB** 239 864/AS $5.25
650/2-74-121	1AA010	**Development of Method for Carcinogenic Vapor Analysis in Ambient Atmospheres** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 239 770/AS $6.25
650/2-74-122	1AB015	**Trace Pollutant Emissions from the Processing of Non-Metallic Ores** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 240 117/AS $8.75
650/2-74-123	1AB013	**Boiler Modification Cost Survey for Sulfur Oxides Control by Fuel Substitution — Abstracted 600/9-75-001b** —Aerotherm/Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 239 455/AS $5.25
650/2-74-124	1AA010	**Development of Sampling Method for Total Atmospheric Selenium — Abstracted 600/9-75-001b** — Southern Research Institute Birmingham, AL **ORDER FROM:** PB No. Pending
650/2-74-125	1AB013	**Pollutant Analysis Cost Survey** U.S. Department of Commerce Washington, DC **ORDER FROM: NTIS-PB** 241 991 $7.25
650/2-74-126a	1AB013	**Symposium on Flue Gas Desulfurization – Atlanta, November 1974 Volume I** Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 572/AS $15.25
650/2-74-126b	1AB013	**Proceedings: Symposium on Flue Gas Desulfurization – Atlanta, November 1974, Volume II** Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 573/AS $12.25
650/2-74-127	1AB013	**Evaluation of Sulfur Dioxide Emission Control Options for Iowa Power Boilers** M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 239 496/AS $10.00
650/2-74-128	1AA010	**Measurement of the Opacity and Mass Concentration of Particulate Emissions by Transmissometry** Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 241 251/AS $3.75
650/2-74-129	1AB012	**Evaluation of Aeronetic Two-Phase Jet Scrubber** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 239 422/AS $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.	
650/2-74-129a	1AB012 **Evaluation of Centrifield Scrubber** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 243 626/AS $3.75
650/2-74-130	1AB013 **Production of Low-Sulfur Gasoline** M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 240 558/AS $5.75
650/2-74-131	1AB013 **Determination of Hazardous Elements in Smelter-Produced Sulfuric Acid** Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 240 343/AS $4.25
650/2-74-132	1AB012 **Electrostatic Precipitator Performance Model — Abstracted 600/9-75-001b** —Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 238 923/AS $7.00
650/2-74-133	1AA010 **Development of a Prototype Nitrate Detector** Abcor, Incorporated, Walden Research Division Cambridge, MA **ORDER FROM:** Pending
650/2-75-001a	1AB014 **Assessment of Catalysts for Control of NOx from Stationary Power Plants, Phase I, Volume I – Final Report -— Abstracted 600/9-75-001c** —TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 239 745/AS $7.25
650/2-75-001b	1AB014 **Assessment of Catalysts for Control of NOx from Stationary Power Plants, Phase I, Volume II – Data Bank Citation Indices — Abstracted 600/9-75-001c** —TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 239 746/AS $8.50
650/2-75-002	1AB012 **Influence of Fiber Characteristics on Particulate Filtration — Abstracted 600/9-75-001c** —Textile Research Institute Princeton, NJ **ORDER FROM: NTIS-PB** 239 997/AS $4.25
650/2-75-003	1AA010 **Seminar Summary: Sampling and Analysis of the Various Forms of Atmospheric Lead** BY A. Hoyt, Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 240 620/AS $3.25
650/2-75-004	1AA010 **Quantitative Analysis of Airborne Asbestos by X-Ray Diffraction: Final Report on Feasibility Study** Naval Research Laboratory Washington, DC **ORDER FROM: NTIS-PB** 241 285 $3.25
650/2-75-005a	1AA003 **Limited SO_2 and NOx Measurements in St. Louis, 1974: Volume I – Plume Tracking by Correlation Spectroscopy** Environmental Measurements, Inc. San Francisco, CA **ORDER FROM:** Pending
650/2-75-005b	1AA003 **Limited SO_2 and NOx Measurements in St. Louis, 1974: Volume II, Longline Ambient SO_2 Monitor and Variability of SO_2 and NOx** Environmental Measurements, Inc. San Francisco, CA **ORDER FROM:** Pending
650/2-75-006	1AB013 **Theoretical and Experimental Study of the Lime/Limestone Wet Scrubbing Process — Abstracted 600/9-75-001c** —Radian Corporation Austin, TX **ORDER FROM: NTIS-PB** 243 399/AS $9.50
650/2-75-007	1AA010 **Development of Sampling Procedures for Polycyclic Organic Matter and Polychlorinated Biphenyls** Langston Laboratories, Inc. Leawood, KS **ORDER FROM: NTIS-PB** 243 362/AS $5.25
650/2-75-008	1AA010 **In-Stack Transmissometer Evaluation and Application to Particulate Opacity Measurement — Abstracted 600/9-75-001c** —Fecker Systems, Owens-Illinois, Inc. Pittsburgh, PA **ORDER FROM: NTIS-PB** 243 402/AS $5.75
650/2-75-009	1AB012 **Fabric Filter Cleaning Studies — Abstracted 600/9-75-001c** —GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 240 372/AS $10.50
650/2-75-010a	1AB013 **Sulfur Oxide Throwaway Sludge Evaluation Panel (SOTSEP), Volume I: Final Report – Executive Summary -— Abstracted 600/9-75-001c** —Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 618/AS $4.25
650/2-75-010b	1AB013 **Sulfur Oxide Throwaway Sludge Evaluation Panel (SOTSEP), Volume II: Final Report – Technical Discussion — Abstracted 600/9-75-001c** —Control Systems Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 619/AS $9.25
650/2-75-011	1AB013 **Sulfur and Nitrogen Balances in the Solvent Refined Coal Process — Abstracted 600/9-75-001c** —U.S. Department of the Interior Washington, DC **ORDER FROM: NTIS-PB** 243 893/AS $5.75
650/2-75-012	1AB014 **Analysis of Test Data for NOx Control in Gas and Oil-Fired Utility Boilers — Abstracted 600/9-75-001c** — Aerospace Corporation El Segundo, CA **ORDER FROM: NTIS-PB** 241 918/AS $8.50

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-75-013a	1AA010	**Development of a Prototype Sulfuric Acid Monitor** National Research Corporation Billerica, MA **ORDER FROM:** Pending
650/2-75-014	1AA002	**Effect of Gasoline Additives on Gaseous Emissions** U.S. Bureau of Mines Bartlesville, OK **ORDER FROM:** Pending
650/2-75-015	1AA010	**Fabrication and Installation of the Stationary Source Simulator** Aerotherm/Acurex Corporation Mountain View, CA **ORDER FROM:** Pending
650/2-75-016	1AB012	**Symposium on Electrostatic Precipitators for the Control of Fine Particles — Abstracted 600/9-75-001c —** Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 240 440/AS $12.00
650/2-75-017	1AB014	**Identification and Characterization of the Use of Mixed Conventional and Waste Fuels — Abstracted 600/9-75-001c** —M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 241 821/AS $4.25
650/2-75-018	1AB012	**Design, Development, and Field Test of a Droplet Measuring Device** KLD Associates, Inc. Huntington, NY **ORDER FROM: NTIS-PB** 245 607/AS $4.25
650/2-75-019a	1AB015	**Source Assessment Prioritization of Air Pollution from Industrial Surface Coating Operations — Abstracted 600/9-75-001c** —Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 243 423/AS $9.25
650/2-75-020	1AB013	**Continuous Measurement of Total Gas Flowrate from Stationary Sources — Abstracted 600/9-75-001c —** TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 241 894/AS $8.50
650/2-75-021	1AB013	**Distributions of Industrial and Commercial-Institution External Combustion Boilers — Abstracted 600/9-75-001c** —Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 241 195/AS $11.50
650/2-75-022	1AB012	**Andersen Filter Substrate Weight Loss — Abstracted 600/9-75-001c** —Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 240 720/AS $3.75
650/2-75-023	1AB014	**Evaluation of Prechamber Spark Ignition Engine Concepts — Abstracted 600/9-75-001c** —Aerospace Corporation El Segundo, CA **ORDER FROM: NTIS-PB** 241 780/AS $7.50
650/2-75-024a	1AB012	**Pentapure Impinger Evaluation — Abstracted 600/9-75-001c** —GCA Corporation Bedford, MA **ORDER FROM: NTIS-PB** 240 397/AS $4.25
650/2-75-025	1AA010	**Methodology for Assignment of a Hydrocarbon Photochemical Reactivity Index for Emissions From Mobile Sources** Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 240 721/AS $3.75
650/2-75-026a	1AB015	**Testing of a Molecular Sieve Used to Control Mercury Emission From A Chlor-Alkali Plant, Volume I — Abstracted 600/9-75-001c** —Engineering Science, Inc. McLean, VA **ORDER FROM: NTIS-PB** 242 005 $4.25
650/2-75-026b	1AB015	**Testing of a Molecular Sieve Used to Control Mercury Emission From A Chlor-Alkali Plant, Volume II – Appendices — Abstracted 600/9-75-001c** —Engineering Science, Inc. McLean, VA **ORDER FROM: NTIS-PB** 242 006 $7.50
650/2-75-027a	1AB013	**Fluidized Bed Combustion Process Evaluation (Phase I – Residual Oil Gasification/Desulfurization Demonstration at Atmospheric Pressure) Volume I – Summary — Abstracted 600/9-75-001c** —Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 241 834/AS $5.75
650/2-75-027b	1AB013	**Fluidized Bed Combustion Process Evaluation (Phase I – Residual Oil Gasification/Desulfurization Demonstration at Atmospheric Pressure) Volume II – Appendices — Abstracted 600/9-75-001c —** Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 241 835/AS $10.50
650/2-75-027c	1AB013	**Fluidized Bed Combustion Process Evaluation Phase II – Pressurized Fluidized Bed Coal Combustion Development** BY D. L. Keairns, Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS-PB** 246 116/AS $12.00
650/2-75-028	1AA010	**Improvement of Instrumentation and Methodology for Collection and Analysis of Mercury** Geomet, Inc. Pomona, CA **ORDER FROM: NTIS-PB** 242 295/AS $4.75
650/2-75-029	1AA010	**Development of Scanning Electron Microscopy for Measurement of Airborne Asbestos Concentrations** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM:** Pending

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-75-030	1AB013	**Sulfur Compound Emissions of the Petroleum Production Industry — Abstracted 600/9-75-001c** —M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 241 261/AS $6.25
650/2-75-031	1AB013	**Scale Control in Limestone Wet Scrubbing Systems — Abstracted 600/9-75-001c** —Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 243 309/AS $4.75
650/2-75-032a	1AB013	**Energy Consumption: The Chemical Industry — Abstracted 600/9-75-001c** —Dow Chemical Company Freeport, TX **ORDER FROM: NTIS-PB** 241 927/AS $4.25
650/2-75-032b	1AB013	**Energy Consumption: The Primary Metals and Petroleum Industries — Abstracted 600/9-75-001c** —Dow Chemical Company Freeport, TX **ORDER FROM: NTIS-PB** 246 888 $4.00
650/2-75-032c	1AB013	**Energy Consumption: Paper, Stone/Clay/Glass/Concrete, and Food Industries — Abstracted 600/9-75-001c** —Dow Chemical Company Freeport, TX **ORDER FROM: NTIS-PB** 241 926/AS $4.25
650/2-75-032d	1AB013	**Energy Consumption: Fuel Utilization and Conservation in Industry** BY J. T. Reding, and B. P. Shepherd, Dow Chemical Company Freeport, TX **ORDER FROM: NTIS-PB** 246 888/AS $4.00
650/2-75-033	1AB012	**Particulate Collection Efficiency Measurements on a Wet Electrostatic Precipitator — Abstracted 600/9-75-001c** —M. W. Kellogg Company Houston, TX **ORDER FROM: NTIS-PB** 244 173/AS $4.25
650/2-75-034	1AB013	**Fuels Technology: A State-of-the-Art Review — Abstracted 600/9-75-001c** —Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 242 535/AS $8.50
650/2-75-035	1AB014	**Application of Automatic Data Processing Technology to Laboratory Problems — Abstracted 600/9-75-001c** —Aerotherm Acurex Corporation Mountain View, CA **ORDER FROM: NTIS-PB** 244 886/AS $4.25
650/2-75-036	1AA010	**Asbestos Fiber Atlas** California Department of Health, State of Berkeley, CA **ORDER FROM:** Pending
650/2-75-037	1AB012	**Mathematical Model of Electrostatic Precipitation — Abstracted 600/9-75-001c** —Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 246 188/AS $6.25
650/2-75-038	1AB015	**Potentially Hazardous Emissions From The Extraction and Processing of Coal and Oil — Abstracted 600/9-75-001c** —BY G. Cavanaugh, C. E. Burklin, and J. C. Dickerson, Radian Corporation Austin, TX BY H. E. Lebowitz, S. S. Tam, G. R. Smithson Jr., H. Nack, and J. H. Oxley, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 241 803/AS $6.25
650/2-75-039	1AA010	**Field Testing and Evaluation of Methods for Measuring Visibility** Northwest Environmental Technology Laboratory, Inc. Bellevue, WA **ORDER FROM:** Pending
650/2-75-040	1AB013	**Direct Use of Coal in a Fuel Cell: Feasibility Investigation** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 245 917/AS $4.25
650/2-75-041	1AA010	**Infrared Sensor for the Remote Monitoring of SO2** SAI, Inc. LaJolla, CA **ORDER FROM: NTIS-PB** 243 478/AS $4.25
650/2-75-042	1AB015	**Demonstration of Reduced Hydrocarbon Emissions from Gasoline Loading Terminals — Abstracted 600/9-75-001c** —Amoco Oil Company Naperville, IL **ORDER FROM: NTIS-PB** 243 363/AS $4.25
650/2-75-043	1AA010	**Investigation of Particulate Matter Monitoring Using Contact Electrification** California State College Turlock, CA **ORDER FROM: NTIS-PB** 245 055/AS $4.25
650/2-75-044	1AB013	**St. Louis Refuse Processing Plant Equipment, Facility, and Environmental Evaluations — Abstracted 600/9-75-001c** —Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 243 634/AS $5.25
650/2-75-045	1AB013	**Stone & Webster/Ionics SO2 Removal and Recovery Process: Phase I, Final Report — Abstracted 600/9-75-001c** —Wisconsin Electric Power Company Milwaukee, WI **ORDER FROM: NTIS-PB** 243 720/AS $7.25
650/2-75-046	1AB013	**Evaluation of Low-Sulfur Western Coal Characteristics, Utilization, and Combustion Experience — Abstracted 600/9-75-001c** —Monsanto Research Corporation Dayton, OH **ORDER FROM: NTIS-PB** 243 911/AS $12.50
650/2-75-047	1AB013	**EPA Alkali Scrubbing Test Facility: Summary of Testing Through October 1974 — Abstracted 600/9-75-001c** —Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 244 901/AS $12.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2–75–048	1AA003	**Fabrication of Monitoring System for Determining Mass and Composition of Aerosol as a Function of Time** Lawrence Berkeley Laboratory Berkeley, CA **ORDER FROM:** Pending
650/2–75–049	1AA001	**Cadmium in the Environment – III A Toxicological and Epidemiological Appraisal** Karolinska Institute Stockholm, Sweden **ORDER FROM: NTIS-PB** 246 115/AS $7.25
650/2–75–050	1AA010	**Development of Selective Hydrocarbon Sampling System and Field Evaluation with Conventional System** Analytical Research Laboratories, Inc. Monrovia, CA **ORDER FROM:** Pending
650/2–75–051a	1AA010	**Evaluation of Stationary Source Particulate Measurement Methods – Volume I, Portland Cement Plants** Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Pending
650/2–75–052	1AB013	**Lime/Limestone Scrubbing for SO_2 and Particulate Removal in a Marble Bed Scrubber** Combustion Engineering Inc. Windsor, CT **ORDER FROM: NTIS-PB** 246 114/AS $8.50
650/2–75–053a	1AA010	**Field Evaluation of SO_2 Monitoring Systems Applied to H_2SO_4 Plant Emissions – Volume I** Scott Environmental Technology San Bernardino, CA **ORDER FROM:** Pending
650/2–75–053b	1AA010	**Field Evaluation of SO_2 Monitoring Systems Applied to H_2SO_4 Plant Emissions – Volume II** Scott Environmental Technology San Bernardino, CA **ORDER FROM:** Pending
650/2–75–054	1AA002	**Particulate Emissions from Prototype Catalyst Cars** Exxon Research and Engineering Company Linden, NJ **ORDER FROM: NTIS-PB** 244 889/AS $7.25
650/2–75–055	1AA010	**Determination of Aircraft Turbine Engine Particulates** Airesearch Manufacturing Company of Arizona, Inc. Phoenix, AZ **ORDER FROM:** Pending
650/2–75–056	1AA002	**Methodology for Determining Fuel Effects on Diesel Particulate Emissions** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 245 163/AS $7.00
650/2–75–057a	1AB013	**Survey of Flue Gas Desulfurization Systems Cholla Power Generating Station, Arizona Public Service Company — Abstracted 600/9–75–001c** —PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 244 141/AS $4.25
650/2–75–057b	1AB013	**Survey of Flue Gas Desulfurization Systems La Cygne Station, Kansas City Power and Light Co. and Kansas Gas and Electric Co.** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 244 401/AS $4.75
650/2–75–057c	1AB013	**Survey of Flue Gas Desulfurization Systems Phillips Power Station, Duquesne Light Co.** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM:** Pending
650/2–75–057d	1AB013	**Survey of Flue Gas Desulfurization Systems Paddy's Run Station, Louisville Gas and Electric** PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 136/AS $3.75
650/2–75–057e	1AB013	**Survey of Flue Gas Desulfurization Systems – Lawrence Power Station, Kansas Power and Light Company** BY G. A. Isaacs, and F. K. Zada, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 849/AS $4.50
650/2–75–057f	1AB013	**Survey of Flue Gas Desulfurization Systems – Eddystone Station, Philadelphia Electric Company** BY G. A. Isaacs, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM:** Pending
650/2–75–057g	1AB013	**Survey of Flue Gas Desulfurization Systems – Dickerson Station, Potomac Electric Power Company** BY G. A. Isaacs, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 850/AS $4.00
650/2–75–057h	1AB013	**Survey of Flue Gas Desulfurization Systems – Hawthorn Station, Kansas City Power and Light Co.** BY G. A. Isaacs, and F. K. Zada, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 629/AS $4.50
650/2–75–057i	1AB013	**Survey of Flue Gas Desulfurization Systems – Will County Station, Commonwealth Edison Co.** BY G. A. Isaacs, and F. K. Zada, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 851/AS $4.50
650/2–75–057j	1AB013	**Survey of Flue Gas Desulfurization Systems – Reid Gardner Station, Nevada Power Co.** BY R. W. Gerstle, and G. A. Isaacs, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 852/AS $4.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/2-75-057k	1AB013	**Survey of Flue Gas Desulfurization Systems – Mohave Station, Southern California Edison Co.** BY G. A. Isaacs, and F. K. Zada, PEDCo-Environmental Specialists, Inc. Cincinnati, OH **ORDER FROM: NTIS-PB** 246 929/AS $4.00
650/2-75-058a	1AB012	**Johns-Manville CHEAF Evaluation** Air Pollution Technology, Inc. San Diego, CA **ORDER FROM:** Pending
650/2-75-059	1AB012	**Mobile Fabric Filter System Design and Field Test Results** GCA/Technology Division Bedford, MA **ORDER FROM:** Pending
650/2-75-060	1AB015	**Drift Data Acquired on Mechanical Salt Water Cooling Devices** Environmental Systems Corporation Knoxville, TN **ORDER FROM: NTIS-PB** 246 800 $13.00
650/2-75-061a	1AB014	**Influence of Aerodynamic Phenomena on Formation in Combustion – Volume I. Experimental Results** United Technologies Research Center East Hartford, CT **ORDER FROM: NTIS-PB** 245 344/AS $6.25
650/2-75-062	1AA010	**Remote Measurement of Power Plant Smoke Stack Effluent Velocity** Raytheon Company Sudbury, MA **ORDER FROM: NTIS-PB** 245 792/AS $5.75
650/2-75-063	1AB015	**Study of Ferroalloy Furnace Product Flexibility** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 247 273 $5.00
650/2-75-064	1AB015	**Study of Concepts for Minimizing Emissions From CokeOven Door Seals** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 245 580/AS $7.50
650/2-75-065	1AB013	**Identification of Regenerable Metal Oxide SO_2 Sorbents for Fluidized Coal Combustion** Radian Corporation Austin, TX **ORDER FROM: NTIS-PB** 244 402/AS $7.25
650/2-75-066	1AB015	**Hazardous Emission Characterization of Utility Boilers** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 245 017/AS $7.00
650/2-75-067	1AA010	**Development of Air Sampling Methodology** Cincinnati, University of Cincinnati, OH **ORDER FROM: NTIS-PB** 245 026/AS $3.75
650/2-75-068	1AA002	**Methodology for Determining the Effects of Fuels and Additives on Atmospheric Visibility** Calspan Corporation Buffalo, NY **ORDER FROM: NTIS-PB** 245 597/AS $4.25
650/2-75-069	1AA010	**Chemiluminescent Reactive Hydrocarbon Analyzer for Mobile Sources** Aero Chem Research Laboratory, Inc. Princeton, NJ **ORDER FROM: NTIS-PB** 245 126/AS $4.75
650/3-73-001	1AA009	**User's Manual for the APRAC-1A Urban Diffusion Model Computer Program** BY R. L. Mancuso, and F. L. Ludwig, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 213 091 $5.25
650/3-73-002	1AA008	**Determination of the Formation Mechanisms and Composition of Photochemical Aerosols** BY W. C. Kocmond, D. B. Kittelson, J. Y. Tang, and K. L. Demerjian, Calspan Corporation Buffalo, NY **ORDER FROM: NTIS-PB** 230 987 $5.25
650/3-74-001	1HA095	**Bibliography of the Cat** National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 229 869/AS $8.25
650/3-74-002	1AA008	**Haze Formation: It's Nature and Origin – 1973** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 231 535/AS $6.25
650/3-74-003	1AA009	**Wind Tunnel Tests of Negatively Buoyant Plumes** Colorado State University Fort Collins, CO **ORDER FROM: NTIS-PB** 231 590 $5.25
650/3-74-004a	1AA008	**Study of Factors Affecting Reactions in Environmental Chambers Final Report on Phase II** Lockheed Missiles and Space Company, Inc. Sunnyvale, CA **ORDER FROM: NTIS-PB** 236 390/AS $4.00
650/3-74-005	1AA009	**Precipitation Scavenging of Inorganic Pollutants from Metropolitan Sources** Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 237 374/AS $5.75
650/3-74-006	1AA008	**Structure and Reactivity of Adsorbed Oxides of Sulfur** BY J. H. Lunsford, Texas A&M University College Station, TX **ORDER FROM: NTIS-PB** 245 046/AS $4.75

BIBLIOGRAPHIC SECTION

REPORT NO.	
650/3–74–007	1AA008 **Role of Solid-Gas Interactions in Air Pollution** Aerospace Corporation El Segundo, CA **ORDER FROM: NTIS-PB** 244 413/AS $4.75
650/3–74–008	1AA006 **Effects of Air Pollutants on Textile Fibers and Dyes** BY J. B. Upham, Chemistry and Physics Laboratory, EPA Research Triangle Park, NC BY V. S. Salvin, North Carolina, University of Greensboro, NC **ORDER FROM: NTIS-PB** 241 507/AS $4.75
650/3–74–009	1AA008 **Air Pollution Effects on Catastrophic Failure of Metals** BY J. Gerhard, and F. H. Haynie, Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 290/AS $3.75
650/3–74–010	1AA008 **Proceedings of the Solvent Reactivity Conference** Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 296/AS $3.75
650/3–74–011	1AA008 **Chemical Characterization of Model Aerosols** BY W. Schwartz, Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS-PB** 238 557/AS $5.75
650/3–75–001	1AA010 **Environmental Exposure System for Studying Air Pollution Damage to Materials** Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 240 615/AS $3.75
650/3–75–002	1AA008 **Exploratory Study of Factors Affecting Aerosol Formation** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 245 274/AS $3.75
650/3–75–003	1AA009 **Travels of Airborne Pollen** New York, State University of Albany, NY **ORDER FROM:** Pending
650/3–75–004	1AA008 **Formation of Aerosols in a Photochemical Fast Row Reactor** Rockwell International Thousand Oaks, CA **ORDER FROM:** Pending
650/3–75–005	1AA008 **Photochemical Oxidation of Kraft Air Pollutants** Maine, University of Orono, ME **ORDER FROM: NTIS-PB** 243 599/AS $3.25
650/3–75–006	1AA008 **Studies of Small Metallic Particles Formed by Homogeneous Nucleation: Light Scattering and Electron Microscopy** California, University of Santa Barbara, CA **ORDER FROM: NTIS-PB** 244 403/AS $3.75
650/3–75–007	1AA008 **Study of Aerosol Formation in Photochemical Air Pollution** Calspan Corporation Buffalo, NY **ORDER FROM: NTIS-PB** 246 060/AS $7.00
650/3–75–008	1AA008 **Oxidation of Halocarbons** Pennsylvania State University University Park, PA **ORDER FROM: NTIS-PB** 245 153/AS $6.25
650/3–75–009	1AA003 **Regional Air Pollution Study Program – Final Report** Rockwill International Air Monitoring Center Newbury Park, CA **ORDER FROM:** Pending
650/3–75–010	1AA008 **Haze Formation: Its Nature and Origin – 1975** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 244 616/AS $5.25
650/3–75–011	1AA008 **Outdoor Smog Chamber Studies: Effect of Hydrocarbon Reduction on Nitrogen Dioxide** North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 245 829/AS $7.25
650/4–73–001	1AA009 **Mesoscale Windfield Analysis of Los Angeles Basin** BY G. E. Anderson, Center for the Environment and Man, Inc. Hartford, CT **ORDER FROM: NTIS-PB** 231 832/AS $5.25
650/4–73–002	1AA009 **Lidar Studies of Stack Plumes in Rural and Urban Environments** BY W. B. Johnson, R. J. Allen, and W. E. Evans, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 227 347 $5.25
650/4–73–003	1HA326 **Determination of Coronal Ozone Production by High Voltage Power Transmission Lines** BY F. J. Whitmore, and R. L. Durfre, Versar, Inc. Springfield, VA **ORDER FROM: NTIS-PB** 229 994/AS $5.75
650/4–74–001	1AA009 **Application of Repro-Modeling to the Analysis of a Photochemical Air Pollution Model** BY A. Horowitz, W. S. Meisel, and D. C. Collins, Technology Service Corporation Santa Monica, CA **ORDER FROM: NTIS-PB** 231 667/AS $5.25
650/4–74–002	1AA009 **Meteorological Episodes of Slowest Dilution in Contiguous United States** BY B. Ryans, National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 229 588/AS $7.50

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/4-74-003	1AA009	**Development of Modeling Technique for Photochemical Air Pollution** Systems, Science and Software La Jolla, CA **ORDER FROM: NTIS-PB** 237 692/AS $4.75
650/4-74-004	1AA008	**Molecular Modulation Spectrometry for Observation of Free Radicals** BY H. S. Johnston, California, University of Berkeley, CA **ORDER FROM:** Pending
650/4-74-005a	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume I-Determination of Stack Gas Velocity and Volumetric Flow Rate (Type-S Pitot Tube)** BY F. Smith, D. E. Wagoner, and A. C. Nelson Jr., Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 232 437/AS $4.25
650/4-74-005b	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume II – Gas Analysis for Carbon Dioxide, Excess Air, and Dry Molecular Weight** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 235 712/AS $3.75
650/4-74-005c	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume III – Determination of Moisture in Stack Gases** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 240 354/AS $4.25
650/4-74-005d	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume IV – Determination of Particulate Emissions from Stationary Sources** Research Triangle Institute Research Triangle Park, NC **ORDER FROM:** Pending
650/4-74-005h	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume VIII – Determination of CO Emissions from Stationary Sources by NDIR Spectrometry** Research Triangle Institute Research Triangle Park, NC **ORDER FROM:** Pending
650/4-74-0051	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume XII – Determination of Phosphorus in Gasoline** Research Triangle Institute Research Triangle Park, NC **ORDER FROM:** Pending
650/4-74-005m	1HA327	**Guidelines for Development of a Quality Assurance Program: Volume XIII – Test for Lead in Gasoline by Atomic Absorption Spectrometry** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 241 264/AS $4.25
650/4-74-006	1AA009	**Methodology for Treating Large Localized Emissions of Reactive Pollutants** JRB Associates, Inc. La Jolla, CA **ORDER FROM:** Pending
650/4-74-007	1AA003	**Determination of Energetic Characteristics of Urban-Rural Surfaces in the Greater St. Louis Area** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 237 704/AS $5.25
650/4-74-008	1AA009	**User's Guide for Hiway, A Highway Air Pollution** BY R. S. Thompson, and J. R. Zimmerman, Meteorology Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 239 944/AS $4.25
650/4-74-009	1AA008	**Environmental Chamber Studies of Atmospheric Aerosols** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 244 745/AS $3.75
650/4-74-010	1AA010	**Synthesis of Trifluoromethylsulfur Pentafluoride (CF_3SF_5)** Armageddon Chemical Company Durham, NC **ORDER FROM: NTIS-PB** 233 149/AS $3.25
650/4-74-011	1AA008	**Mathematical Simulation of Atmospheric Photochemical Reactions: Model Development, Validation, and Application** Systems Applications, Inc. San Rafael, CA **ORDER FROM: NTIS-PB** 233 049/AS $6.25
650/4-74-012	1AA005	**Comparability of Nine Methods for Monitoring NO_2 in Ambient Air** Research Triangle Institute Research Triangle Park, NC **ORDER FROM:** Pending
650/4-74-013	1HA327	**Collaborative Study of EPA Methods 5,6, and 7 in Fossil Fuel-Fired Steam Generators** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 237 695/AS $3.75
650/4-74-014	1HA327	**Guide for the Evaluation of Atmospheric Analyzers** Air and Industrial Hygiene Laboratory, California State Department of Health Berkeley, CA **ORDER FROM: NTIS-PB** 233 048/AS $7.50
650/4-74-015	1HA327	**Survey of Manual Methods of Measurements of Asbestos, Beryllium, Lead, Cadmium, Selenium, and Mercury in Stationary Source Emissions** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 234 326/AS $6.25
650/4-74-016	1HA327	**Concepts for Development of Field Usable Test Atmosphere Generating Devices** Research Triangle Institute Research Triangle Park, NC **ORDER FROM: NTIS-PB** 235 774/AS $5.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/4-74-017	1AA008	**Design of the EPA Semi-Trailer Mobile Air Pollution Laboratory** Thermo-Systems, Inc. St. Paul, MN **ORDER FROM: NTIS-PB** 244 744/AS $4.25
650/4-74-018	1HA327	**Guidelines for Determining Performance Characteristics of Altimated Methods for Measuring Nitrogen Dioxide and Hydrocarbons, Corrected for Methane in Ambient Air** Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 092/AS $3.75
650/4-74-019a	1HA327	**Collaborative Testing Methods for Measurements of NO2 in Ambient Air Volume I – Report of Testing** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 244 902/AS $5.25
650/4-74-020	1HA327	**Development of Technical Specifications for Standard Gas-Diluent Mixtures for Use in Measurement of Mobile Source Emissions** Scott Research Laboratories, Inc. Plumsteadville, PA **ORDER FROM: NTIS-PB** 245 050/AS $4.25
650/4-74-021	1HA327	**Collaborative Study of Method for the Determination of Particulate Matter Emissions From Stationary Sources (Fossil Fuel-Fired Steam Generators)** BY H. F. Hamil, and R. E. Thomas, Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 234 150/AS $5.00
650/4-74-022	1HA327	**Collaborative Study of Method for the Determination of Particulate Matter Emissions from Stationary Sources (Municipal Incinerators)** BY H. F. Hamil, and R. E. Thomas, Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 234 151/AS $5.00
650/4-74-023	1HA327	**Collaborative Study of Method 104 – Reference Method for Determination of Beryllium Emission from Stationary Sources** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 245 011/AS $4.75
650/4-74-024	1HA327	**Collaborative Study of Method for the Determination of Sulfur Dioxide Emissions From Stationary Sources (Fossil Fuel-Fired Steam Generators)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 238 293/AS $4.25
650/4-74-025	1HA327	**Collaborative Study of Method for the Determination of Nitrogen Oxide Emissions from Stationary Sources (Fossil Fuel-Fired Steam Generators)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 238 555/AS $5.25
650/4-74-026	1HA327	**Collaborative Study of Method for Stack Gas Analysis and Determination of Moisture Fraction with Use of Method 5** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 236 929/AS $3.75
650/4-74-027	1HA327	**Collaborative Study of Reference Method for Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method) (24-hour Sampling)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 239 731/AS $5.25
650/4-74-028	1HA327	**Collaborative Study of Method for the Determination of Nitrogen Oxide Emissions from Stationary Sources (Nitric Acid Plants)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 236 930/AS $3.75
650/4-74-029	1HA327	**Collaborative Study of Method for the Determination of Particulate Emissions from Stationary Sources (Portland Cement Plants)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 237 346/AS $4.25
650/4-74-030	1AA003	**Development of Air Particulate Monitoring Systems** Lawrence Berkeley Laboratory Berkeley, CA **ORDER FROM: NTIS-PB** 239 690/AS $4.25
650/4-74-031	1HA327	**Evaluation of the Triethanolamine Procedure for the Determination of Nitrogen Dioxide in Ambient Air** National Environmental Research Center, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 237 348/AS $3.75
650/4-74-032	1AA009	**Sources and Natural Removal Processes for Some Atmospheric Pollutants** Pennsylvania State University University Park, PA **ORDER FROM: NTIS-PB** 237 168/AS $5.75
650/4-74-033	1HA327	**Collaborative Study of Method for Determination of Stack Gas Velocity and Volumetric Flow Rate in Conjunction with EPA Method 5** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 240 342/AS $3.75
650/4-74-034	1AA008	**Aerosol Formation from Gas-Phase Reactions of Ozone and Olefin in the Presence of Sulfur Dioxide** National Environmental Research Center, EPA Research Triangle Park NC **ORDER FROM: NTIS-PB** 237 345/AS $7.50

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/4-74-035	1AA009	**Invariant Modeling of Turbulence and Diffusion in the Planetary Boundary Layer** Princeton, Incorporated, Aeronautical Research Associates Princeton, NJ **ORDER FROM: NTIS-PB** 239 323/AS $5.25
650/4-74-036	1AA003	**NO_2 Actinometer for Field Use** Philco-Ford Corporation Newport Beach, CA **ORDER FROM: NTIS-PB** 237 745/AS $4.25
650/4-74-037	1AA008	**Atmospheric Measurement of Photochemical Smog Reactions – A Preliminary Analysis** Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 210 422/AS $4.25
650/4-74-038	1AA009	**Proceedings of Symposium on Statistical Aspects of Air Quality** North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 240 214/AS $8.50
650/4-74-039	1HA327	**Laboratory and Field Evaluations of EPA Methods 2, 6 and 7** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 238 267/AS $4.25
650/4-74-040	1AA008	**Mathematical Simulation of Smog Chamber Photo-Chemical Experiments** Systems Applications, Inc. San Rafael, CA **ORDER FROM: NTIS-PB** 238 094/AS $7.00
650/4-74-041	1AA009	**Diffusion in Turbulent Surface Layer and the Development of an Atmospheric Wind Tunnel** Notre Dame, University of Notre Dame, IN **ORDER FROM:** Pending
650/4-74-042	1HA326	**Study of Indoor Air Quality** Research Corporation of New England Wethersfield, CT **ORDER FROM: NTIS-PB** 238 556/AS $8.75
650/4-74-043	1AA009	**Highway Air Pollution Measurement Program Using Sulfur Hexafluoride Tracer Gas** Environmental Systems Laboratory, Inc. Sunnyvale, CA **ORDER FROM:** Pending
650/4-74-044	1AA009	**Laboratory and Numerical Simulation of Plume Dispersion in Stably Stratified Flow Over Complex Terrain** Flow Research, Inc. Kent, WA **ORDER FROM:** Pending
650/4-74-045a	1AA009	**Select Research Group in Air Pollution Meteorology, Second Annual Progress Report Volume I** Pennsylvania State University, Department of Meteorology and Center for Air, Environmental Studies University Park, PA **ORDER FROM: NTIS-PB** 241 390/AS $10.25
650/4-74-045b	1AA009	**Select Research Group in Air Pollution Meteorology, Second Annual Progress Report Volume II** Pennsylvania State University, Department of Meteorology and Center for Air, Environmental Studies University Park, PA **ORDER FROM: NTIS-PB** 241 391/AS $10.50 Three Volume Set – PB 241 389/AS $20.00
650/4-74-046	1HA327	**Collaborative Test of the TGS-ANSA Method for Measurement of Nitrogen Dioxide in Ambient Air** Midwest Research Institute Kansas City, MO **ORDER FROM:** Pending
650/4-74-047	1HA327	**Evaluation of TGS-ANSA Procedure for Determination of Nitrogen Dioxide in Ambient Air** Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 238 097 $4.25
650/4-74-048	1HA327	**Evaluation of the Arsenite Procedure for the Determination of Nitrogen Dioxide in Ambient Air** Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 239 727/AS $3.75
650/4-74-049	1AA009	**Model Verification – Aircraft Emissions Impact on Air Quality** Geomet, Inc. Gaithersburg, MD **ORDER FROM:** Pending
650/4-74-050	1AA003	**Development of Sampling Devices for Gaseous Atmospheric Tracers** Analytical Research Laboratories, Inc. Monrovia, CA **ORDER FROM: NTIS-PB** 238 921 $4.25
650/4-74-051	1AA003	**Feasibility of Metrac System for Regional Air Pollution Study** Control Data Corporation Minneapolis, MN **ORDER FROM:** Pending
650/4-74-052	1AA008	**Laboratory Analyses of Atmospheric Hydrocarbon – California South Coast Air Basin (Los Angeles Air Quality Control Region) August – November 1973** California Air Resources Board, State of El Monte, CA **ORDER FROM:** Pending
650/4-75-001	1HA327	**Collaborative Study of Method 10 – Reference Method for Determination of Carbon Monoxide Emissions from Stationary Sources – Report of Testing** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 241 284/AS $4.75

BIBLIOGRAPHIC SECTION

REPORT NO.	
650/4-75-002	1AA002 **Comprehensive Technical Report on all Atmospheric Contaminants Associated with Photochemical Air Pollution** System Development Corporation Santa Monica, CA **ORDER FROM: NTIS-PB** 239 510/AS $12.25
650/4-75-003	1HA327 **Collaborative Study of Method for the Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 240 752/AS $4.25
650/4-75-004	1AA009 **Studies of Pollutant Concentration Frequency Distributions** Meteorology Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 579/AS $5.45
650/4-75-005	1AA009 **Optimization of Air Pollution Measurement Locations** Kaman Sciences Corporation Colorado Springs, CO **ORDER FROM:** Pending
650/4-75-006	1AA008 **Spectroscopic Study of California Smog** Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 241 022/AS $4.25
650/4-75-007	1HA327 **Summary Report: Workshop on Ozone Measurement by the Potassium Iodide Method** Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 240 939/AS $3.75
650/4-75-008	1HA327 **Survey of Users of the EPA – Reference Method for Measurement of Non-Methane Hydrocarbons in Ambient Air** Scott Environmental Technology Plumsteadville, PA **ORDER FROM:** Pending
650/4-75-009	1HA327 **Evaluation and Collaborative Study of Method for Visual Determination of Opacity of Emissions from Stationary Sources** Southwest Research Institute San Antonio, TX **ORDER FROM:** Pending
650/4-75-010	1AA009 **Statistical Questions Relating to the Validation of Air Quality Simulation Models** BY G. W. Brier, Brier, Glenn W., Consultant Fort Collins, CO **ORDER FROM: NTIS-PB** 241 866/AS $3.25
650/4-75-011	1HA327 **Collaborative Test of the Continuous Colori-Metric Method for Measurement of Nitrogen Dioxide in Ambient Air** Midwest Research Institute Kansas City, MO **ORDER FROM:** Pending
650/4-75-012	1AA009 **Relationship Between Circumsolar Sky Brightness and Atmospheric Aerosols** Alaska, University of Fairbanks, AK **ORDER FROM: NTIS-PB** 241 806/AS $5.25
650/4-75-013	1HA327 **Collaborative Test of the Chemiluminescent Method for Measurement of NO_2 in Ambient Air** Midwest Research Institute Kansas City, MO **ORDER FROM:** Pending
650/4-75-014	1HA327 **Evaluation of the Proposed Ambient Air Monitoring Equivalent and Reference Methods** Air and Industrial Hygiene Laboratory Berkeley, CA **ORDER FROM: NTIS-PB** 245 185/AS $8.50
650/4-75-015	1AA009 **Some Topics Relating to Modeling of Dispersion in Boundary Layer** North Carolina State University Raleigh, NC **ORDER FROM: NTIS-PB** 243 524/AS $4.25
650/4-75-016	1HA327 **Collaborative Study of Reference Method for Measurement of Ozone in the Atmosphere (Ozone-Ethylene Chemiluminescent Method)** Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 244 105/AS $3.75
650/4-75-017	1AA009 **Effects of Atmospheric Aerosols on Infrared Irradiance at the Earth's Surface in a Non-Urban Environment** BY A. Hoyt, Meteorology Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 243 635/AS $3.75
650/4-75-018a	1AA009 **Evaluation of the Multiple Source Gaussian Plume Diffusion Model – Phase I** Geomet, Inc. Gaithersburg, MD **ORDER FROM:** Pending
650/4-75-018b	1AA009 **Evaluation of the Multiple Source Gaussian Plume Diffusion Model – Phase II** Geomet, Inc. Gaithersburg, MD **ORDER FROM:** Pending
650/4-75-019	1HA327 **Evaluation of Effects of NO, CO_2 and Sampling Flow Rate on Arsenite Procedure for Measurement of NO_2 in Ambient Air** BY B. Ryans, Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 285/AS $3.75
650/4-75-020	1AA008 **Ambient Air Measurements of Vinyl Chloride in the Niagara Falls Area** BY A. Hoyt, Chemistry and Physics Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 243 695/AS $3.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
650/4-75-021	1HA327	**Evaluation of Gas Phase Titration Technique as Used for Calibration of Nitrogen Dioxide Chemiluminescence Analyzers** BY B. Ryans, Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 242 294/AS $3.75
650/4-75-022	1HA327	**Evaluation of a Continuous Colorimetric Method for Measurement of Nitrogen Dioxide in Ambient Air** BY B. Ryans, Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 243 462/AS $3.75
650/4-75-023	1HA326	**Comparison of Methods for Determination of Nitrogen Dioxide in Ambient Air** BY B. Ryans, Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 245 025/AS $4.75
650/4-75-024a	1HA327	**Guidelines for Quality Assurance Programs for Mobile Source Emissions Measurement Systems: Phase I, Light-Duty GasolinePowered Vehicles – Quality Assurance Guidelines** Olson Laboratories, Inc. Anaheim, CA **ORDER FROM: NTIS-PB** 245 787/AS $9.25
650/4-75-024b	1HA327	**Guidelines for Quality Assurance Programs for Mobile Source Emissions Measurement Systems: Phase I, Light-Duty GasolinePowered Vehicles – Test Procedures** Olson Laboratories, Inc. Anaheim, CA **ORDER FROM: NTIS-PB** 245 788/AS $8.50
650/4-75-025	1HA327	**Method for Obtaining Replicate Particulate Samples from Stationary Sources** BY B. Tilton, and A. Hoyt, Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC **ORDER FROM: NTIS-PB** 245 045/AS $3.75
650/4-75-026	1AA008	**Mathematical Modeling of Simulated Photochemical Smog** Systems Applications, Inc. San Rafael, CA **ORDER FROM: NTIS-PB** 246 122/AS $6.25
650/5-73-001	1AA005	**Study of the Social and Economic Impact of Oders – Phase III** Copley International Corporation La Jolla, CA **ORDER FROM: NTIS-PB** 223 589/AS $7.50
650/5-73-002	1AA004	**Assessment of Economic Impact of Air Pollutants on Vegetation in the United States, 1969 and 1971** BY H. M. Benedict, C. J. Miller, and J. S. Smith, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 224 818 $4.25
650/9-75-001a	1AA001	**World's Air Quality Management Standards: Volume 1 – The Air Quality Management Standards of the World, Including United States Federal Standards** North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 241 875/AS $10.50
650/9-75-001b	1AA001	**World's Air Quality Management Standards: Volume 11 – The Air Quality Management Standards of the United States** North Carolina, University of Chapel Hill, NC **ORDER FROM: NTIS-PB** 241 876/AS $10.25
660/2-73-001	1BA032	**Plume Temperature Measurements of Shallow Submerged Model Discharges With Current** BY L. Winiarski, and J. Chasse, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 223 014 $4.25
660/2-73-002	1BB045	**Nitrate and Nitrite Volatilization By Microorganisms in Laboratory Experiments** BY J. M. Bollay, Pennsylvania State University University Park, PA **ORDER FROM: GPO-**EP1.23/2:660/2-73-002 $1.00 **NTIS-PB** 224 467/AS
660/2-73-003	1BA032	**Statistical Prediction of Equilibrium Temperature From Standard Meteorological Data Bases** BY C. M. Hogan, L. C. Patmore, and H. Seidman, Environmental Systems Laboratory, Inc. Sunnyvale, CA **ORDER FROM: GPO-**EP1.23/2:660/2-73-003 $2.55 **NTIS-PB** 226 874/AS
660/2-73-004	1BB036	**Nomographs for Thermal Pollution Control Systems** BY C. Jedlicka, Hittman Associates, Inc. Columbia, MD **ORDER FROM: GPO-**EP1.23/2:660/2-73-004 $1.80 **NTIS-PB** 228 582
660/2-73-005	1BB044	**Batch Disinfection of Treated Wastewater With Chlorine at Less Than 1 Degree C** BY R. C. Gordon, and C. V. Davenport, Arctic Environmental Research Laboratory, EPA Fairbanks, AK **ORDER FROM: GPO-**EP1.23/2:660/2-73-005 $0.65 **NTIS-PB** 228 092
660/2-73-006a	1BB045	**Wastewater Treatment and Reuse By Land Application, Volume I – Summary** BY C. E. Pound, BY R. W. Crites, and Metcalf and Eddy, Inc. Palo Alto, CA **ORDER FROM: GPO-**EP1.23/2:660/2-73-006a $1.10 **NTIS-PB** 225 940
660/2-73-006b	1BB045	**Wastewater Treatment and Reuse By Land Application, Volume II – Summary** BY C. E. Pound, and R. W. Crites, Metcalf and Eddy, Inc. Palo Alto, CA **ORDER FROM: GPO-**EP1.23/2:660/2-73-006b $3.25 **NTIS-PB** 225 941

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-73-007	1BA027	**Evaluation of Flame Emission Determination of Phosphorus in Water** BY W. R. Seitz, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-73-007 $0.50 **NTIS-PB** 225 142/9AS
660/2-73-008	1BA027	**Mercury in the Environment** BY D. H. Klein, Hope College Holland, MI **ORDER FROM: GPO-**EP1.23/2:660/2-73-008 $0.65 **NTIS-PB** 231 256/AS
660/2-73-009	1BA027	**Evaluation of a Microwave-Induced Plasma Spectromoter for Trace Analysis** BY W. R. Seitz, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-73-009 $0.65 **NTIS-PB** 231 390
660/2-73-010	1BB036	**Treatment of Domestic Wastewater and NSSC Pulp and Paper Mill Wastes** BY P. J. Farrell, L. R. Heble, and A. G. Stenhser, Harriman Utility Board Harriman, TN **ORDER FROM: GPO-**EP1.23/2:660/2-73-010 $1.40 **NTIS-PB** 231 267/AS
660/2-73-011	1BB392	**Explicit Calibration of the Pills II System** BY F. M. Shofner, Environmental Systems Corporation Knoxville, TN **ORDER FROM: GPO-**EP1.23/2:660/2-73-011 $0.65 **NTIS-PB** 228 094
660/2-73-012	1BA032	**Negatively Buoyant Jets in a Cross Flow** BY J. L. Anderson, F. L. Parker, and B. A. Benedict, Vanderbilt University Nashville, TN **ORDER FROM: GPO-**EP1.23/2:660/2-73-012 $2.50 **NTIS-PB** 234 177
660/2-73-013	1BA027	**Environmental Applications of Advanced Instrumental Analysis: Assistance Projects, FY 72** BY A. L. Alford, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-73-013 $0.85 **NTIS-PB** 228 147/AS
660/2-73-014	1BA024	**Subsurface Biological Activity in Relation to Ground Water Pollution** BY W. J. Dunlap, and J. F. McNabb, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-73-014 $0.90 **NTIS-PB** 227 990
660/2-73-015	1BB037	**Recovery of Fatty Materials From Edible Oil Refinery Effluents** BY W. C Seng, Swift and Company Oakbrook, IL **ORDER FROM: GPO-**EP1.23/2:660/2-73-015 $1.60 **NTIS-PB** 231 268/AS
660/2-73-016	1BA032	**Reviewing Environmental Impact Statements – Power Plant Cooling Systems, Engineering Aspects** BY A. G. Christianson, F. H. Rainwater, M. A. Shirazi, and B. A. Tichenor, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:660/2-73-016 $1.35 **NTIS-PB** 228 604/AS
660/2-73-017	1BB044	**Lime Disinfection of Sewage Bacteria at Low Temperature** BY S. M. Morrison, K. L. Martin, and D. E. Humbel, Colorado State University Fort Collins, CO **ORDER FROM: GPO-**EP1.23/2:660/2-73-017 $1.35 **NTIS-PB** 228 565/AS
660/2-73-018	1BB036	**Air Flotation – Biological Oxidation of Synthetic Rubber and Latex Wastewater** BY A. H. King, J. Ogea, and J. W. Sutton, Firestone Synthetic Rubber and Latex Company Lake Charles, Louisiana **ORDER FROM: GPO-**EP1.23/2:660/2-73-018 $1.60 **NTIS-PB** 229 408
660/2-73-019	1BB037	**Color Removal From Kraft Mill Effluents By Ultrafiltration** BY H. A. Fremount, D. C. Tate, and R. L. Goldsmith, U.S. Plywood-Champion Paper, Inc. Hamilton, OH **ORDER FROM: GPO-**EP1.23/2:660/2-73-019 $2.40 **NTIS-PB** 231 257/AS
660/2-73-020	1BB037	**Information Resource: Final Report Water Pollution Control in Water Utilities** BY H. A. Fober, A. D. Narbozgi, and M. J. Taras, American Water Works Association Research Foundation New York, NY **ORDER FROM: GPO-**EP1.23/2:660/2-73-020 $1.05 **NTIS-PB** 231 270 $4.25
660/2-73-021	1BB037	**Waste Control and Abatement in the Processing of Sweet Potatoes** BY C. Smallwood, North Carolina State University Raleigh, NC **ORDER FROM: GPO-**EP1.23/2:660/2-73-021 $1.15 **NTIS-PB** 238 469
660/2-73-022	1BB045	**Tertiary Treatment With a Controlled Ecological System** BY A. L. Gram, Gram/Phillips Associates, Inc. Water District Calabasas, CA **ORDER FROM: GPO-**EP1.23/2:660/2-73-022 $0.90 **NTIS-PB** 231 261/AS
660/2-73-023	1BB036	**Regeneration of Chromated Aluminum Deoxidizers** BY H. C. Hicks, and R. A. Jarmuth, Boeing Commercial Airplane Company Seattle, WA **ORDER FROM: GPO-**EP1.23/2:660/2-73-023 $1.95 **NTIS-PB** 231 835/AS $6.25
660/2-73-024	1BB036	**Treatment and Recovery of Fluoride Industrial Waste** BY C. J. Staebler Jr., Grumman Aerospace Corporation Bethpage, NY **ORDER FROM: GPO-**EP1.23/2:660/2-73-024 $1.40 **NTIS-PB** 234 447

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-73-025a	1BB045	**Hypolimnion Aeration With Commercial Oxygen – Volume I – Dynamics of Bubble Plume** BY R. E. Speece, and Fawzi Rayyan, Texas, University of Austin, TX **ORDER FROM: GPO-**EP1.23/2:660/2-73-025a $2.00 **NTIS-PB** 231 265/AS
660/2-73-025b	1BB045	**Hypolimnion Aeration With Commercial Oxygen – Volume II – Bubble Plume Gas Transfer** BY R. E. Speece, and G. Murfee, Texas, University of Austin, TX **ORDER FROM: GPO-**EP1.23/2:660/2-73-025b $1.80 **NTIS-PB** 231 266/AS
660/2-73-026	1BB392	**Technical and Economic Evaluation of Cooling Systems Blowdown Control Techniques** BY D. B. Bories, J. E. Levia, and B. Baratz, WAPORA, Inc. Washington, DC **ORDER FROM: GPO-**EP1.23/2:660/2-73-026 $1.20 **NTIS-PB** 231 258/AS
660/2-73-027	1BA027	**Tissue Enzyme Assay for Chlorinated Hydrocarbon Insecticides** BY L. K. Cutkomp, Minnesota, University of St. Paul, MN **ORDER FROM: GPO-**EP1.23/2:660/2-73-027 $0.85 **NTIS-PB** 234 404
660/2-73-028	1BB037	**Coliform Bacteria Growth and Control in Aerated Stabilization Basins** BY S. W. Watkins, Crown Zellerbach Corporation Camas, WA **ORDER FROM: GPO-**EP1.23/2:660/2-73-028 $2.75 **NTIS-PB** 231 259/AS
660/2-73-029	1BA025	**Mathematical Model for Barged Ocean Disposal of Wastes** BY R. C.Y. Kah, and Y. C. Chagy, Tetra Technology, Inc. Pasadena, CA **ORDER FROM: GPO-**EP1.23/2:660/2-73-029 $4.85 **NTIS-PB** 232 018
660/2-73-030	1BB037	**Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components** BY K. W. Baierl, N. L. Chang, B. F. Lueck, A. J. Wiley, and R. A. Holm, Institute of Paper Chemistry Appleton, WI **ORDER FROM: GPO-**EP1.23/2:660/2-73-030 $2.10 **NTIS-PB** 233 139
660/2-73-031	1BB037	**Proceedings Fourth National Symposium on Food Processing Wastes** Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:660/2-73-031 $4.50 **NTIS-PB** 234 606
660/2-73-032	1BB036	**Sulfuric Acid and Ferrous Sulfate Recovery From Waste Pickle Liquor** BY J. K. Seyler, W. E. Thornton, and M. K. Householder, Fitzsimmons Steel Company Youngstown, OH **ORDER FROM: GPO-**EP1.23/2:660/2-73-032 $1.20 **NTIS-PB** 233 112
660/2-73-033	1BB036	**New Membranes for Reverse Osmosis Treatment of Metal Finishing Effluents** BY L. T. Rozielle, C. V. Kopp Jr., and K. E. Cobian, North Star Research Corporation Minneapolis, MN **ORDER FROM: GPO-**EP1.23/2:660/2-73-033 $1.40 **NTIS-PB** 240 722/AS $4.75
660/2-73-034	1BA027	**Infrared Fourier Transform Spectrometry of Gas Chromatography Effluents** BY L. V. Azarraga, and A. C. McCall, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-73-034 $1.10 **NTIS-PB** 241 304/AS $4.25
660/2-73-035	1BB042	**Joint Construction Sediment Control Project** BY B. C. Becker, D. B. Emerson, and M. A. Nawrocki, Hittman Associates, Inc. Columbia, MD Maryland, State of, Water Resources Administration Annaplois, MD **ORDER FROM: GPO-**EP1.23/2:660/2-73-035 $2.00 **NTIS-PB** 235 634/AS
660/2-73-036	1BB036	**Chemical/Physical and Biological Treatment of Wool Processing Wastes** BY L. T. Hatch, R. E. Sharpin, and W. T. Wirtanen, Metcalf and Eddy, Inc. Boston, MA **ORDER FROM: GPO-**EP1.23/2:660/2-73-036 $1.05 **NTIS-PB** 233 137
660/2-73-037	1BB037	**Modular Wastewater Treatment System Demonstration For the Textile Maintenance Industry** BY G. Douglas, Envirex, Inc. Milwaukee, WI **ORDER FROM: GPO-**EP1.23/2:660/2-73-037 $3.45 **NTIS-PB** 231 837
660/2-73-038	1BB036	**Final Report Deep Water Pilot Plant Treatability Study** Delaware River Basin Commission Trenton, NJ **ORDER FROM: GPO-**EP1.23/2:660/2-73-038 $4.10 **NTIS-PB** 234 441
660/2-73-039	1BB392	**Measurement of Residual Chlorine Levels in Cooling Water — Amperometric Method** BY R. Manabe, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:660/2-73-039 $1.10 **NTIS-PB** 238 780/AS
660/2-74-001	1BA027	**Multielement Analyses of Environmental Samples by Spark Source Mass Spectrometry** BY C. E. Taylor, and W. J. Taylor, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-74-001 $0.65 **NTIS-PB** 234 456
660/2-74-002	1BA027	**Evaluation of a Computer Program for GC-MS Specific Ion Monitoring** BY A. L. Alford, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-74-002 $0.75 **NTIS-PB** 240 124/AS $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-74-003	1BB045	**Conference on Recycling Treated Municipal Wastewater Through Forest and Cropland** BY W. E. Sopper, and L. T. Kardos, Pennsylvania State University University Park, PA **ORDER FROM: GPO-**EP1.23/2:660/2-74-003 $1.20 **NTIS-PB** 236 313/AS
660/2-74-004	1BA027	**Specific Ion Mass Spectrometric Detection for Gas Chromatographic Pesticide Analysis** BY M. B. Newher, and J. R. Hoyland, Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO-**EP1.23/2:660/2-74-004 $1.55 **NTIS-PB** 233 136
660/2-74-005	1BB039	**Quantification of Pollution in Agricultural Runoff** BY J. N. Dornbush, J. R. Andersen, and L. L. Harms, South Dakota State University Brookings,, SD **ORDER FROM: GPO-**EP1.23/2:660/2-74-005 $1.90 **NTIS-PB** 233 134
660/2-74-006	1BB037	**Wastewater Abatement in Canning Vegetables by IQB Blanching** BY D. B. Lund, Wisconsin, University of Madison, WI **ORDER FROM: GPO-**EP1.23/2:660/2-74-006 $1.25 **NTIS-PB** 234 495
660/2-74-007	1BB037	**Industrial Water Softener Waste Brine Reclamation** BY J. Burton, and E. Kreusch, Culligan International Company Northbrook, IL **ORDER FROM: GPO-**EP1.23/2:660/2-74-007 $1.95 **NTIS-PB** 233 132
660/2-74-008	1BB037	**Color Removal and Sludge Disposal Process for Kraft Mill Effluents** BY E. L. Spruill, Continental Can Company Hodge, LA **ORDER FROM: GPO-**EP1.23/2:660/2-74-008 $1.65 **NTIS-PB** 235 573/AS
660/2-74-009	1BB039	**Demonstration of Three Recirculating Swine Waste Management Systems** BY J. R. Miner, T. E. Hazen, R. J. Smith, and G. B. Parker, Iowa State University Ames, IA **ORDER FROM: GPO-**EP1.23/2:660/2-74-009 $1.90 **NTIS-PB** 234 179
660/2-74-010	1BA024	**Saline Groundwater Produced with Oil and Gas** BY A. G. Collins, U.S. Bureau of Mines Bartlesville, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-010 $1.15 **NTIS-PB** 234 385
660/2-74-011	1BB392	**Demonstration of Thermal Water Utilization in Agriculture** BY J. W. Berry, and H. H. Miller Jr., Eugene Water and Electric Board Eugene, OR **ORDER FROM: GPO-**EP1.23/2:660/2-74-011 $2.80 **NTIS-PB** 234 178
660/2-74-012	1BB037	**Treatment of Cheese Processing Wastewaters in Aerated Lagoons** BY F. R. Daul, Kent Cheese Company Melrose Park, IL **ORDER FROM: GPO-**EP1.23/2:660/2-74-012 $1.50 **NTIS-PB** 237 334/AS
660/2-74-013	1BB039	**Pesticide, Transport and Runoff Model for Agricultural Land** BY N. H. Crawford, and A. S. Donigian, Hydrocomp, Inc. Palo Alto, CA **ORDER FROM: GPO-**EP1.23/2:660/2-74-013 $2.40 **NTIS-PB** 235 723/AS $4.90
660/2-74-014	1BB037	**Activated Sludge – Bio-Disc Treatment of Distillery Wastewater** BY J. L. Thomas, and L. G. Koehrsen, Stanley Consultants, Inc. Muscatine, IA American Distilling Company Pekin, IL **ORDER FROM: GPO-**EP1.23/2:660/2-74-014 $1.40 **NTIS-PB** 234 383
660/2-74-015		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/2-74-016	1BB045	**Renovation of Secondary Effluent for Re-use as a Water Resource** BY L. T. Kardos, W. E. Sopper, E. Myers, and J. Nesbitt, Pennsylvania State University University Park, PA **ORDER FROM: GPO-**EP1.23/2:660/2-74-016 $4.80 **NTIS-PB** 234 176
660/2-74-017	1BB039	**Herbicide Runoff from Four Coastal Plain Soil Types** BY G. W. Bailey, W. R. Payne, and C. N. Smith, Southeast Environmental Research Laboratory, EPA Athens, GA BY A. P. Barnett, Southern Piedmont Conservation Research Center Watkinsville, GA **ORDER FROM: GPO-**EP1.23/2:660/2-74-017 $1.45 **NTIS-PB** 235 571/AS
660/2-74-018	1BB040	**Storage and Disposal of Iron Ore Processing Wastewater** BY C. R. Baillod, and G. R. Alger, Michigan Technological University Houghton, MI **ORDER FROM: GPO-**EP1.23/2:660/2-74-018 $1.80 **NTIS-PB** 234 180
660/2-74-019	1BB040	**North Fork Alluvial Decontamination Project, Hubbard Creek Reservoir Watershed** BY B. L. Jacob, Texas Municipal Water District, West Central Abilene, TX **ORDER FROM: GPO-**EP1.23/2:660/2-74-019 $0.95 **NTIS-PB** 236 798/AS
660/2-74-020	1BB037	**Evaluation of Polymeric Clarification of Meat-Packing and Domestic Wastewaters** Metropolitan Sewer Board St. Paul, MN **ORDER FROM: GPO-**EP1.23/2:660/2-74-020 $2.30 **NTIS-PB** 235 900/AS
660/2-74-021	1BA027	**Analysis of Coprostanol, An Indicator of Fecal Contamination** BY J. E. Singley, C. J. Kirchmer, and R. Miura, Florida, University of Gainesville, FL **ORDER FROM: GPO-**EP1.23/2:660/2-74-021 $1.60 **NTIS-PB** 235 491/AS
660/2-74-022		**(No. Cancelled) ORDER FROM:** (No. Cancelled)

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-74-023	1BB039	**Odors from Confined Livestock Production – A State of the Art** BY J. R. Miner, Ohio State University Columbus, OH **ORDER FROM: GPO-**EP1.23/2:660/2-74-023 $1.70 **NTIS-PB** 234 182
660/2-74-024	1BB039	**Livestock and the Environment – A Bibliography with Abstracts** BY R. J. Ramsey, East Central State College Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-024 $3.50 **NTIS-PB** 242 545/AS $10.00
660/2-74-025	1BB037	**Protein Production from Acid Whey VIA Fermentation** BY S. Bernstein, and T. C. Everson, Milbrew, Inc. Juneau, WI **ORDER FROM: GPO-**EP1.23/2:660/2-74-025 $1.25 **NTIS-PB** 235 504/AS
660/2-74-026		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/2-74-027	1BB037	**Treatment of Packing House Waste by Anaerobic Lagoons in Plastic-Media Filters** BY D. A. Baker, A. H. Wymore, and J. E. White, Family and Foods, Inc. Denison, IA **ORDER FROM: GPO-**EP1.23/2:660/2-74-027 $1.20 **NTIS-PB** 235 566/AS
660/2-74-028	1BB037	**Biological Treatment of Concentrated Sugar Beet Wastes** BY J. H. Fisher, Beet Sugar Development Foundation Fort Collins, CO **ORDER FROM: GPO-**EP1.23/2:660/2-74-028 $1.75 **NTIS-PB** 240 123/AS $4.75
660/2-74-029	1BB037	**Color Characterization Before and After Lime Treatment** BY H. S. Dugal, R. M. Leekley, and J. W. Swanson, Institute of Paper Chemistry Appleton, WI **ORDER FROM: GPO-**EP1.23/2:660/2-74-029 $2.15 **NTIS-PB** 235 493/AS
660/2-74-030	1BB039	**Anaerobic-Aerobic Lagoon Treatment of Dairy Manure Wastes** BY D. E. Proctor, Washington State University Pullman, WA **ORDER FROM: NTIS-PB** 235 574 $6.00
660/2-74-031	1BB037	**Water and Waste Management in Poultry Processing** BY R. E. Carawan, J. Macon, and W. M. Crosswhite, North Carolina State University Raleigh, NC BY B. K. Hawkins, Gold Kist, Inc. Durham, NC **ORDER FROM: GPO-**EP1.23/2:660/2-74-031 $2.50 **NTIS-PB** 235 559/AS $7.50
660/2-74-032	1BB039	**Pesticide Movement from Crop Lands into Lake Erie** BY A. C. Waldron, Ohio State University, Department of Entomology Columbus, OH **ORDER FROM: GPO-**EP1.23/2:660/2-74-032 $1.40 **NTIS-PB** 235 650/AS
660/2-74-033	1BB039	**Nitrogen and Phosphorus Losses from Agronomy Plots in North Alabama** BY R. R. Bradford, Alabama A&M College Normal, AL **ORDER FROM: GPO-**EP1.23/2:660/2-74-033 $0.90 **NTIS-PB** 235 931/AS
660/2-74-034	1BB039	**Liquid Aerobic Composting of Cattle Wastes and Evaluation of Byproducts** BY F. Grant, and F. Brommenschenkel Jr., Chino Basin Municipal Water District Cucamonga, CA **ORDER FROM: GPO-**EP1.23/2:660/2-74-034 $0.95 **NTIS-PB** 235 914/AS
660/2-74-035	1BB037	**Improvement of Treatment of Food Industry Waste** BY S. B. Tuwiner, RAI Research Corporation Haupage, Long Island, NY **ORDER FROM: GPO-**EP1.23/2:660/2-74-035 $1.25 **NTIS-PB** 234 444
660/2-74-036	1BB039	**Development of Field Applied DDT** BY K. H. Sweeny, J. R. Fischer, A. F. Gray, H. J. Marcus, and D. H. W. Liu, Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO-**EP1.23/2:660/2-74-036 $1.45 **NTIS-PB** 235 943/AS
660/2-74-037	1BB040	**Brine Disposal Treatment Practices Relating to the Oil Production Industry** BY G. W. Reid, L. E. Streebin, L. Canter, and J. Smith, Oklahoma, University of Norman, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-037 $2.90 **NTIS-PB** 235 886/AS
660/2-74-038	1BB040	**State-of-the-Art: Uranium Mining, Milling, and Refining Industry** BY D. A. Clark, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-038 $1.55 **NTIS-PB** 235 557/AS $5.25
660/2-74-039	1BB036	**Catalyzed Bio-Oxidation and Tertiary Treatment of Integrated Textile Wastewaters** BY A. J. Snyder, Fram Corporation Pawtucket, RI BY T. A. Alspaugh, Cone Mills Corporation Greensboro, NC **ORDER FROM: GPO-**EP1.23/2:660/2-74-039 $1.55 **NTIS-PB** 238 292/AS
660/2-74-040	1BB037	**Granite Industry Wastewater Treatment** BY W. B. Farnham, Vermont, State of, Department of Water Resources Montpelier, VT **ORDER FROM: GPO-**EP1.23/2:660/2-74-040 $1.45 **NTIS-PB** 235 505
660/2-74-041	1BB045	**Wastewater Use in the Production of Food and Fiber—Proceedings of Conference held at Oklahoma City, OK March 5-7, 1974** Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-041 $5.35 **NTIS-PB** 245 176/AS $13.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-74-042	1BB045	**Land Application of Sludge Effluent and Sludges: Selected Abstracts** Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-042 $2.80 **NTIS-PB** 235 386 $8.50
660/2-74-043	1BB042	**Prediction of Sub-soil Erodibility Using Chemical, Mineralogical and Physical Parameters** BY C. Roth, D. Nelson, and M. J. M. Romkens, Purdue University Lafayette, IN **ORDER FROM: GPO-**EP1.23/2:660/2-74-043 $1.90 **NTIS-PB** 239 442/AS $3.90
660/2-74-044	1BB037	**Test Method for Volatile Component Stripping of Wastewater** BY L. J. Thibodeaux, Arkansas, University of, College of Engineering Fayetteville, AR **ORDER FROM: GPO-**EP1.23/2:660/2-74-044 $1.70 **NTIS-PB** 235 567/AS
660/2-74-045	1BA027	**Comparison of Germanium Detectors for Neutron Activation Analysis for Mercury** BY R. V. Moore, and O. W. Propheter, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-74-045 $0.65 **NTIS-PB** 235 944/AS
660/2-74-046	1BB037	**Paunch Manure as a Feed Supplement in Channel Catfish Farming** BY R. C. Summerfelt, Oklahoma State University Stillwater, OK BY S. C. Yin, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-046 $1.60 **NTIS-PB** 235 575/AS
660/2-74-047	1BB039	**Waste Treatment System for Confined Hog Raising Operations** BY W. R. Park, Midwest Research Institute Kansas City, MO **ORDER FROM: GPO-**EP1.23/2:660/2-74-047 $1.20 **NTIS-PB** 235 558/AS $4.75
660/2-74-048	1BA027	**Implementation of a Computer Based Information System for Mass Spectral Identification** BY J. R. Hoyland, and M. B. Neher, Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO-**EP1.23/2:660/2-74-048 $1.10 **NTIS-PB** 239 933 $3.75
660/2-74-049	1BB039	**Selected Irrigation Return Flow Quality Abstracts: 1972-1973** BY G. V. Skogerboe, W. R. Walker, R. S. Bennett, and B. J. Zakely, Colorado State University Fort Collins, CO **ORDER FROM: GPO-**EP1.23/2:660/2-74-049 $3.85 **NTIS-PB** 235 385 $10.50
660/2-74-050	1BB036	**Research Study of Coal Preparation Plant and By-Product Coke Plant Effluents** BY E. F. Pearson, C. F. and T. Steel Corporation Pueblo, CO **ORDER FROM:** Pending
660/2-74-051		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/2-74-052	1BB039	**Evaluation of Irrigation Scheduling for Salinity Control in Grand Valley** BY G. V. Skogerboe, W. R. Walker, J. H. Taylor, and R. S. Bennett, Colorado State University Fort Collins, CO **ORDER FROM: GPO-**EP1.23/2:660/2-74-052 $1.30 **NTIS-PB** 235 633/AS
660/2-74-053	1BB045	**Hypolimnetic Flow Regimes in Lakes and Impoundments** BY J. Edinger, N. Yanagida, and I. M. Cohen, Pennsylvania, University of Philadelphia, PA **ORDER FROM: GPO-**EP1.23/2:660/2-74-053 $2.10 **NTIS-PB** 235 391 $7.00
660/2-74-054	1BB039	**Volatization of Losses of Pesticides from Soil** BY J. Lenny, and W. J. Farmer, California, University of Riverside, CA **ORDER FROM: GPO-**EP1.23/2:660/2-74-054 $1.45 **NTIS-PB** 239 325/AS
660/2-74-055	1BB036	**Physical-Chemical Treatment of Municipal Wastes by Recycled Magnesium Carbonate** BY A. P. Black, A. T. DeBose, and R. P. Vogh, Gainesville, City of Gainesville, FL **ORDER FROM: GPO-**EP1.23/2:660/2-74-055 $1.90 **NTIS-PB** 239 326/AS
660/2-74-056	1BA024	**Ground Water Contamination in the Northeast States** BY D. W. Miller, F. A. DeLuca, and T. L. Tessier, Geraghty and Miller, Inc. Port Washington, NY **ORDER FROM: GPO-**EP1.23/2:660/2-74-056 $3.30 **NTIS-PB** 235 702/AS $5.80
660/2-74-057	1BB039	**Soil Modification for Denitrification and Phosphate Reduction of Feed Lot Wastes** BY A. E. Erickson, W. J. Ellis, J. D. Pievge, A. R. Wolcott, C. M. Hansen, F. P. Peabody, E. C. Miller, and J. W. Thomas, Michigan State University East Lansing, MI **ORDER FROM: GPO-**EP1.23/2:660/2-74-057 $1.60 **NTIS-PB** 235 909/AS
660/2-74-058	1BB037	**Proceedings: Fifth National Symposium on Food Processing Wastes** BY K. A. Dostal, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:660/2-74-058 $3.80 **NTIS-PB** 237 520/AS $6.30
660/2-74-059	1BB037	**Submerged Combustion Evaporator for Concentration of Brewery Spent Grain Liquor** BY J. L. Stein, Anheuser Busch St. Louis, MO **ORDER FROM: GPO-**EP1.23/2:660/2-74-059 $1.85 **NTIS-PB** 238 475/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2–74–060	1BB037	**Poultry Processing Wastewater Treatment and Reuses** BY J. D. Cliese, Maryland, State of, Department of Health and Mental Hygiene Baltimore, MD **ORDER FROM: GPO-**EP1.232/:660/2–74–060 $1.15 **NTIS-PB** 237 185/AS
660/2–74–061	1BB037	**Shrimp Canning Waste Treatment Study** BY A. F. Maudlin, and A. J. Szabo, Dominque, Szabo and Associates, Inc. Lafayette, LA **ORDER FROM: GPO-**EP1.23/2:660/2–74–061 $2.05 **NTIS-PB** 239 050/AS
660/2–74–062	1BB045	**Feasibility of Overflow Overland Flow Treatment of Feedlot Runoff** BY R. E. Thomas, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2–74–062 $0.85 **NTIS-PB** 238 481/AS
660/2–74–063	1BB039	**Design Parameters for Animal Waste Treatment Systems** BY T. B. S. Parkasam, P. Y. Loehu, P. Y. Yang, T. W. Scott, and T. W. Bateman, Cornell University Ithaca, NY **ORDER FROM: GPO-**EP1.23/2:660/2–74–063 $3.00 **NTIS-PB** 245 028/AS $7.50
660/2–74–064	1BB039	**Pollution Aspects of Catfish Production—Review and Projections** BY J. C. Barker, J. L. Chesness, and R. E. Smith, Georgia, University of Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2–74–064 $1.65 **NTIS-PB** 244 943/AS $5.75
660/2–74–065	1BB040	**Evaluation of Tailings Ponds Sealants** BY D. A. Clark, and J. E. Moyer, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2–74–065 $0.70 **NTIS-PB** 235 929/AS
660/2–74–066	1BB040	**State-of-the-Art: Sand and Gravel Industry** BY B. D. Newport, and J. E. Moyer, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2–74–066 $0.85 **NTIS-PB** 236 147/AS $2.85
660/2–74–067	1BB040	**Pollution Problems and Research Needs for an Oil Shale Industry** BY F. M. Pfeffer, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2–74–067 $0.85 **NTIS-PB** 236 608/AS
660/2–74–068	1BB039	**Losses of Fertilizers and Pesticides from Claypan Soils** BY G. E. Smith, Missouri, University of Columbia, MO **ORDER FROM: GPO-**EP1.23/2:660/2–74–068 $1.45 **NTIS-PB** 239 931 $4.75
660/2–74–069	1BB037	**Studies of Low Molecular Weight Lignin Sulfonates** BY W. G. Glasser, J. S. Gratzl, K. Forso, B. F. Hrutfiord, L. N. Johanson, J. L. McCarthy, and J. Collins, Washington, University of Seattle, WA **ORDER FROM: GPO-**EP1.23/2:660/2–74–069 $1.55 **NTIS-PB** 239 368/AS
660/2–74–070	1BB044	**Extended Aeration Sewage Treatment in Cold Climate — Abstracted 600/9–75–001a —**BY H. J. Coutts, and C. B. Christianson, Arctic Environmental Research Laboratory, EPA College, AK **ORDER FROM: NTIS-PB** 240 350/AS $4.75
660/2–74–071	1BB042	**Programmed Demonstration for Erosion and Sediment Control Specialist** BY T. R. Mills, M. A. Nawrocki, G. R. Squire, H. T. Hopkins, and M. L. Clar, Maryland, State of, Water Resources Administration Annapolis, MD **ORDER FROM: GPO-**EP1.23/2:660/2–74–071 $2.15 **NTIS-PB** 239 425/AS $4.65
660/2–74–072	1BB042	**Demonstration of the Separation and Disposal of Concentrated Sediments** BY M. A. Nawrocki, Hittman Associates, Inc. Columbia, MD **ORDER FROM: GPO-**EP1.23/2:660/2–74–072 $1.45 **NTIS-PB** 239 322/AS
660/2–74–073	1BB042	**Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control** BY G. Sitek, B. C. Becker, and M. A. Nawrocki, Hittman Associates, Inc. Columbia, MD **ORDER FROM: GPO-**EP1.23/2:660/2–74–073 $1.20 **NTIS-PB** 239 333/AS
660/2–74–074	1BB037	**Rum Distillery Slops Treatment by Anaerobic Contact Process** BY T. Shea, E. Ramos, J. Rodriguez, and G. Dorion, Bacardi Company San Juan, PR **ORDER FROM: GPO-**EP1.23/2:660/2–74–074 $1.55 **NTIS-PB** 238 291/AS
660/2–74–075	1BB037	**Wastewater Characterization for the Specialty Food Industry** BY C. J. Schmidt, J. Farquhar, and E. V. Clements, SCS Engineers Long Beach, CA **ORDER FROM: GPO-**EP1.23/2:660/2–74–075 $2.00 **NTIS-PB** 239 968/AS $5.75
660/2–74–076	1BA027	**Automated Analysis of Individual Refractory Organics in Polluted Water** BY W. Pitt, R. Jolley, and S. Katz, Oak Ridge National Laboratory Oak Ridge, TN **ORDER FROM: GPO-**EP1.23/2:660/2–74–076 $1.75 **NTIS-PB** 239 774/AS $5.25
660/2–74–077	1BA024	**Organic Compounds Entering Groundwater from a Landfill** BY J. Robertson, G. R. Toussaint, and M. A. Jorque, Oklahoma, University of Norman, OK **ORDER FROM: GPO-**EP1.23/2:660/2–74–077 $1.15 **NTIS-PB** 237 969/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-74-078	1BA027	**Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY '73** BY A. L. Alford, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23/2:660/2-74-078 $1.00 **NTIS-PB** 238 472/AS
660/2-74-079	1BA027	**Ion-Selective Membranes Electrodes for Water Pollution Water Monitoring** BY G. A. Rechnitz, New York, State University of Buffalo, NY **ORDER FROM: GPO-**EP1.23/2:660/2-74-079 $0.80 **NTIS-PB** 238 490/AS $2.80
660/2-74-080		**(Unassigned) ORDER FROM:** (Unassigned)
660/2-74-081	1BA029	**Summary Report, Trail-Marking and Alarm Pheromones of Some Ants of the Genus Atta** BY R. G. Riley, and R. M. Silverstein, New York, State University of Syracuse, NY **ORDER FROM: NTIS-PB** 235 562/AS $4.75
660/2-74-082	1BA023	**Dispersal Processes in Lake Huron** BY G. T. Csanady, I. S. F. Jones, and B. C. Kenney, Waterloo, University of Ontario, Canada **ORDER FROM:** Pending
660/2-74-083	1BA023	**Dynamics and Diffusion in the Great Lakes** BY G. T. Csanady, B. Pade, G. M. Bragg, M. Mekinda, and A. M. Hale, Waterloo, University of Ontario, Canada **ORDER FROM:** Pending
660/2-74-084	1BB039	**Evaluation of Drainage for Salinity Control in Grand Valley** BY G. Skogerboe, W. R. Walker, R. S. Bennett, J. Ayars, and J. Taylor, Colorado State University Fort Collins, CO **ORDER FROM: GPO-**EP1.23/2:660/2-74-084 $1.75 **NTIS-PB** 240 213/AS $5.25
660/2-74-085	1BA032	**Effect of Geographical Variation on Performance of Recirculating Cooling Ponds** BY E. L. Thaxton, Vanderbilt University Nashville, TN **ORDER FROM: GPO-**EP1.23/2:660/2-74-085 $3.20 **NTIS-PB** 238 903/AS
660/2-74-086	1BB037	**Mercury Recovery from Contaminated Waste Waters and Sludges** Georgia Pacific Corporation Bellingham, WA **ORDER FROM: GPO-**EP1.23/2:660/2-74-086 $1.95 **NTIS-PB** 238 600/AS
660/2-74-087	1BB045	**Feasibility of Overland Flow for Treatment of Raw Domestic Wastewater** BY R. E. Thomas, K. Jackson, and L. Penrod, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: GPO-**EP1.23/2:660/2-74-087 $0.85 **NTIS-PB** 238 926/AS
660/2-74-088	1BB037	**Infrared Dry Caustic vs. Wet Caustic Peeling of White Potatoes** BY O. Sproul, J. Vennes, W. Knudson, and J. W. Cyr, Western Potato Service, Inc. Grand Forks, ND Potato Service, Inc. Presque Isle, ME **ORDER FROM: NTIS-PB** 244 408/AS $4.25
660/2-74-089	1BB392	**Water Recycle/Reuse Possibilities: Power Plant Boiler and Cooling System** BY G. R. Nelson, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:660/2-74-089 $1.15 **NTIS-PB** 238 794/AS $3.15
660/2-74-090	1BB039	**Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas** BY J. E. Halligan, H. W. Parker, R. M. Swaezy, and K. L. Herzog, Texas Technical University Lubbock, TX **ORDER FROM: NTIS-PB** 239 668/AS $4.25
660/2-74-091	1BB037	**Continuous Inplant Hot Gas Blanching of Vegetables** BY J. W. Ralls, and W. A. Mercer, National Canners Association Berkeley, CA **ORDER FROM: NTIS-PB** 238 601/AS
660/2-74-092	1BB037	**Dry Caustic Heating of Clingstone Peaches on a Commercial Scale** BY H. E. Stone, DelMonte Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 239 751/AS $4.25
660/2-74-093	1BB037	**Separation, Dewatering, and Disposal of Sugar Beet Transport Water Solids Phase I** BY I. V. Fordyce, and A. M. Cooley, American Crystal Sugar Company Denver, CO **ORDER FROM: GPO-**EP1.23/2:660/2-74-093 $1.35 **NTIS-PB** 239 200/AS
660/2-74-094	1BB036	**Pollution Control Technology for Pesticide Formulators and Packagers — Abstracted 600/9-75-001a** —BY T. L. Ferguson, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 241 001/AS $6.25
660/2-75-001	1BB037	**Waste Citrus Activated Sludge As a Poultry Feed Ingredient — Abstracted 600/9-75-001a** —BY R. H. Jones, J. T. White, and B. L. Damron, Winter Garden Citrus Products Cooperative Winter Garden, FL **ORDER FROM: NTIS-PB** 240 672/AS $4.25
660/2-75-002	1BB037	**Pilot Scale Treatment of Wine Stillage — Abstracted 600/9-75-001a** —BY E. D. Schroeder, California, University of Davis, CA **ORDER FROM: NTIS-PB** 240 996/AS $5.75

BIBLIOGRAPHIC SECTION

REPORT NO.

660/2–75–003 1BB039 **Livestock and the Environment—A Bibliography with Abstracts, Volume II — Abstracted 600/9–75–001a —** BY R. H. Ramsey, M. L. Rowe, and L. Merryman, East Central Oklahoma State University Ada, OK **ORDER FROM: NTIS-PB** 243 223/AS $5.75

660/2–75–004 1BB037 **Activated Carbon Treatment of Unbleached Kraft Effluent for Reuse — Abstracted 600/9–75–001a** —BY E. W. Lang, W. G. Timpe, and R. L. Miller, St. Regis Paper Company Pensacola, FL **ORDER FROM: NTIS-PB** 243 246/AS $7.25

660/2–75–005 1BB039 **Management Practices Affecting Quality and Quantity of Irrigation Return Flow — Abstracted 600/9–75–001a** —BY L. G. King, and R. J. Hanks, Utah State University Logan, UT **ORDER FROM: NTIS-PB** 242 827/AS $6.25

660/2–75–006 1BB036 **Plant Scale Studies of the Magnesium Carbonate Water Treatment Process** BY A. P. Black, and C. G. Thompson, Black, Crow and Eidsness, Inc. Montgomery, AL **ORDER FROM: NTIS-PB** 242 253/AS $6.25

660/2–75–007 1BB045 **Water Quality Effect of Diking a Shallow Arid-Region Lake — Abstracted 600/9–75–001a** —BY D. K. Fuhriman, L. B. Merritt, J. S. Bradshaw, and J. R. Barton, Brigham Young University Provo, UT **ORDER FROM: NTIS-PB** 241 984/AS $7.50

660/2–75–008 1BB045 **Role of Trace Elements in Management of Nuisance Growths — Abstracted 600/9–75–001a** —BY T. Bott, R. Patrick, and R. Larson, Academy of Natural Sciences of Philadelphia Philadelphia, PA **ORDER FROM: NTIS-PB** 241 985/AS $8.50

660/2–75–009 1BB039 **Use of Soil Parameters for Describing Pesticide Movement Through Soils — Abstracted 600/9–75–001b —** BY J. M. Davidson, G. H. Brusewitz, D. R. Baker, and A. L. Wood, Oklahoma State University Stillwater, OK **ORDER FROM: NTIS-PB** 242 859/AS $6.25

660/2–75–010 1BB039 **Research Status of Effects of Land Application of Animal Wastes — Abstracted 600/9–75–001b** —BY W. L. Powers, G. W. Wallingford, and L. S. Murphy, Kansas State University Manhattan, KS **ORDER FROM: NTIS-PB** 243 472/AS $5.25

660/2–75–011 1BB036 **Process and Environmental Technology for Producing SNG and Liquid Fuels — Abstracted 600/9–75–001b** –-BY M. R. Beychok, Beychok, Milton R., Consulting Engineer Irvine, CA **ORDER FROM: NTIS-PB** 242 774/AS $6.25

660/2–75–012 1BB039 **Survival of Pathogens in Animal Manure Disposal — Abstracted 600/9–75–001c** —BY S. L. Diesch, P. R. Goodrich, B. S. Pomeroy, and L. A. Will, Minnesota, University of St. Paul, MN **ORDER FROM: NTIS-PB** 245 005/AS $5.75

660/2–75–013 1BB039 **Treatment and Ultimate Disposal of Cattle Feedlot Wastes — Abstracted 600/9–75–001b** —BY H. L. Manges, R. I. Lipper, L. S. Murphy, W. L. Powers, and L. A. Schmid, Kansas State University Manhattan, KS **ORDER FROM: NTIS-PB** 244 185/AS $5.75

660/2–75–014 1BB036 **Recycle of Synthetic Warp Sizes From Textile Desizing Wastewater — Abstracted 600/9–75–001c** —BY C. E. Bryan, North Carolina State University Raleigh, NC **ORDER FROM: NTIS-PB** 244 387/AS $4.25

660/2–75–015 1BB039 **Pollution Abatement From Cattle Feedlots in Northeastern Colorado and Nebraska — Abstracted 600/9–75–001c** —BY L. K. Porter, F. G. Viets, T. M. McCalla, L. F. Elliott, F. A. Norstadt, H. R. Duke, N. P. Swanson, L. N. Mielke, und G. L. Hutchinson, U.S. Department of Agriculture Fort Collins, CO **ORDER FROM: NTIS-PB** 246 242/AS $5.75

660/2–75–016 1BB036 **Application of Exchange Resins for Treatment of Textile Dye Wastes** BY A. Maggiolo, and J. H. Sayles, Bennett College Greensboro, NC **ORDER FROM: NTIS-PB** 244 404/AS $3.75

660/2–75–017 1BB036 **Radiation Treatment of High Strength Chlorinated Hydrocarbon Wastes — Abstracted 600/9–75–001c** —BY T. F. Craft, R. D. Kimbrough, and C. T. Brown, Georgia Institute of Technology Atlanta, GA **ORDER FROM: NTIS-PB** 244 388/AS $3.75

660/2–75–018 1BB045 **Use of Climatic Data in Design of Soils Treatment Systems — Abstracted 600/9–75–001c** —BY D. Whiting, U.S. Department of Commerce Asheville, NC **ORDER FROM: NTIS-PB** 244 098/AS $4.75

660/2–75–019 1BB037 **Egg Breaking and Processing Waste Control and Treatment — Abstracted 600/9–75–001c** —BY W. J. Jewell, H. R. Davis, O. F. Johndrew Jr., R. C. Loehr, W. Siderewicz, and R. R. Zall, Cornell University Ithaca, NY **ORDER FROM: NTIS-PB** 245 588/AS $7.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/2-75-020	1BB036	**Refinery Effluent Water Treatment Plant Using Activated Carbon — Abstracted 600/9-75-001c** —BY G. C. Loop, Atlantic Richfield Company Carson, CA **ORDER FROM: NTIS-PB** 244 389/AS $5.25
660/2-75-021	1BB036	**Optimizing a Petrochemical Waste Bio-Oxidation System Through Automation — Abstracted 600/9-75-001c** —BY M. A. Zeitoun, W. F. McIlhenny, N. J. Riscon, J. H. Culp, and H. C. Behrens, Dow Chemical Company Freeport, TX **ORDER FROM: NTIS-PB** 247 160/AS $7.75
660/2-75-022	1BB045	**Kinetic Model for Orthophosphate Reactions in Mineral Soils — Abstracted 600/9-75-001c** —BY C. G. Enfield, and B. E. Bledsoe, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK **ORDER FROM: NTIS-PB** 247 143/AS $6.00
660/2-75-023		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/2-75-024	1BB037	**Taxonomy of Klebsiella pneumoniae Isolated From Pulp/Paper Mill Wastewater — Abstracted 600/9-75-001c** —BY M. D. Knittel, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 244 405/AS $3.75
660/2-75-025	1BB036	**Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon — Abstracted 600/9-75-001c** —BY J. F. Grutsch, R. C. Mallatt, and A. W. Peters, American Oil Company Yorktown, VA **ORDER FROM: NTIS-PB** 247 148/AS $5.50
660/2-75-026	1BB045	**Water Quality Control Through a Single Crop Agriculture, No. 4 — Abstracted 600/9-75-001c** —BY K. R. Lundberg, and P. T. Trihey, Bemidji State College Bemidji, MN **ORDER FROM NTIS-PB** 247 617 $6.00
660/2-75-027	1BB392	**Turbulent Bed Cooling Tower — Abstracted 600/9-75-001c** —BY R. G. Barile, Purdue University West Lafayette, IN **ORDER FROM: NTIS-PB** 245 840/AS $3.75
660/2-75-028	1BB037	**Organic Compounds in Pulp Mill Lagoon Discharge — Abstracted 600/9-75-001c** —BY B. F. Hrutfiord, T. S. Friberg, D. F. Wilson, and J. R. Wilson, Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 246 900/AS $4.50
660/3-73-001	1BA031	**Weed Harvest and Lake Nutrient Dynamics** BY J. K. Neel, S. A. Peterson, and W. L. Smith, North Dakota, University of Grand Forks, ND **ORDER FROM: GPO-**EP1.23: 660/3-73-001 $2.35 **NTIS-PB** 224 492/AS
660/3-73-002	1BA031	**Nitrogen Sources and Cycling in Natural Waters** BY P. L. Brezonik, Florida, University of Gainesville, FL **ORDER FROM: GPO-**EP1.23: 660/3-73-002 $2.35 $4.25 **NTIS-PB** 224 491/AS
660/3-73-003	1BA031	**Organic Nutrient Factors Effecting Algal Growths** BY N. L. Clesceri, Rensselaer Polytechnic Institute Troy, NY **ORDER FROM: GPO-**EP1.23: 660/3-73-003 $2.80 **NTIS-PB** 226 874/AS
660/3-73-004	1BA021	**Water Quality Requirements of Aquatic Insects** BY A. R. Gaufin, Utah, University of Salt Lake City, UT **ORDER FROM: GPO-**EP1.23: 660/3-73-004 $1.20 **NTIS-PB** 228 582/AS
660/3-73-005	1BA025	**Oxidation of Organic Matter in Sediments** BY M. M. Pamatmat, Auburn University Auburn, AL BY R. S. Jones, H. Sanborn, and A. Bhagwat, Washington, University of Seattle, WA **ORDER FROM: GPO-**EP1.23: 660/3-73-005 $1.30 **NTIS-PB** 231 248/AS
660/3-73-006	1BA031	**Development of a Selective Algaecide to Control Nuisance Algal Growth** BY B. L. Pows, and W. F. McIlhenny, Dow Chemical Company Freeport, TX **ORDER FROM: GPO-**EP1.23: 660/3-73-006 $1.50 **NTIS-PB** 225 027/2AS
660/3-73-007	1BA023	**Effects of Protozoa on the Fate of Particulate Carbon** BY H. W. Holm, and F. A. Smith, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23: 660/3-73-007 $0.70 **NTIS-PB** 225 143/7AS
660/3-73-008	1BA023	**Biological Models of Freshwater Communities** BY F. B. Taub, Washington, University of Seattle, WA **ORDER FROM: GPO-**EP1.23: 660/3-73-008 $1.05 **NTIS-PB** 225 029/8AS
660/3-73-009	1BA023	**Dynamic Water Quality Forecasting and Management** BY D. J. O'Connor, R. V. Thomann, and D. M. Ditoro, Manhattan College Bronx, NY **ORDER FROM: GPO-**EP1.23: 660/3-73-009 $2.05 **NTIS-PB** 225 048/8AS
660/3-73-010	1BA025	**Dispersion in Hydrologic and Coastal Environments** BY N. G. Brooks, California Institute of Technology Pasadena, CA **ORDER FROM: GPO-**EP1.23: 660/3-73-010 $1.55 **NTIS-PB** 226 890
660/3-73-011	1BA023	**Big Eddies and Mixing Processes in the Great Lakes** BY G. T. Csanady, Waterloo, University of Waterloo, Ontario, Canada **ORDER FROM: GPO-**EP1.23: 660/3-73-011 $0.50 **NTIS-PB** 246 754/AS $3.50

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/3–73–012	18A023	**Chemistry of Organmercurials in Aquatic Systems** BY G. L. Baugham, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23: 660/3–73–012 $1.30 **NTIS-PB** 226 889/AS
660/3–73–013	18A025	**Petroleum Weathering: Some Pathways, Fate and Disposition on Marine Waters** BY M. H. Feldman, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 227 278 $3.75
660/3–73–014	18A025	**Puget Sound Oceanographic Field Studies Data Report, Everett, BELLINGHAM, Port Angeles, 1962–63** BY R. J. Callaway, J. Vlastelicia, and G. R. Ditsworth, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM:** R. J. Calloway, 503 752–4211, X-369
660/3–73–015	18A031	**Effect of Phosphorus Removal Processes on Algal Growth** BY J. Scherifig, P. S. Dixon, R. Appleman, and C. A. Justice, California, University of Irvaine, CA **ORDER FROM: GPO-**EP1.23: 660/3–73–015 $1.20 **NTIS-PB** 228 585/AS
660/3–73–016	18A021	**Studies on Southeastern Aquatic Insects** BY J. B. Wallace, Georgia, University of Athens, GA **ORDER FROM: NTIS-PB** 232 183/AS $5.75
660/3–73–017	18A021	**Pollution Effects on Adult Steelhead Migration in the Snake River** BY C. M. Falter, and R. R. Ringe, Idaho, University of Moscow, ID **ORDER FROM: GPO-**EP1.23: 660/3–73–017 $1.50 **NTIS-PB** 232 990
660/3–73–018	18A022	**Effects of Crude Oil and Some of Its Components on Young Coho and Sockeye Salmon** BY J. E. Morrow, Alaska, University of Fairbanks, AK **ORDER FROM: GPO-**EP1.23: 660/3–73–018 $0.85 **NTIS-PB** 232 094/AS
660/3–73–019	18A021	**Early Life History and Feeding of Young Mountain Whitefish** BY C. B. Stalnaker, and R. E. Gresswell, Utah State University Logan, UT **ORDER FROM: GPO-**EP1.23: 660/3–73–019 $0.95 **NTIS-PB** 232 992
660/3–73–020	18A021	**Effects of Temperature on Diseases of Salmonid Fishes** BY J. L. Fryer, and K. S. Pilcher, Oregon State University Corvallis, OR **ORDER FROM: GPO-**EP1.23: 660/3–73–020 $1.55 **NTIS-PB** 232 988
660/3–73–021	18A026	**First Annual Reports of EPA Grants Funded for IFYGL** Grosse Ile Laboratory, EPA Grosse Ile, MI **ORDER FROM: NTIS-PB** 235 947/AS $20.75
660/3–73–022	18A023	**Review of the Physiological Impact of Mercurials** BY M. C. Ferens, Georgia, University of Athens, GA **ORDER FROM: GPO-**EP1.23: 660/3–73–022 $1.00 **NTIS-PB** 234 644 $4.25
660/3–73–023	18A031	**Applications of Growth and Sorption Algal Assays** BY G. P. Fitzgerald, and P. D. Uttormark, Wisconsin, University of Madison, WI **ORDER FROM: GPO-**EP1.23: 660/3–73–023 $2.10 **NTIS-PB** 232 446/AS
660/3–73–024	18A031	**Protocol for Evaluating the Nitrogen Status of Lake Sediments** BY D. R. Keeney, Wisconsin, University of Madison, WI **ORDER FROM: GPO-**EP1.23: 660/3–73–024 $0.65 **NTIS-PB** 233 138
660/3–73–025	18A023	**NTA and Mercury in Artificial Stream Systems** BY H. J. Kania, and R. J. Beyers, Georgia, University of Athens, GA **ORDER FROM: GPO-**EP1.23: 660/3–73–025 $0.70 **NTIS-PB** 234 459
660/3–74–001		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3–74–002	18A023	**Pesticides in the Illinois Waters of Lake Michigan** BY R. A. Schacht, Illinois Environmental Protection Agency Chicago, IL **ORDER FROM: GPO-**EP1.23: 660/3–74–002 $1.25 **NTIS-PB** 245 150/AS $4.25
660/3–74–003	18A022	**Biologically Allowable Thermal Pollution Limits, Parts I and II** BY W. Drost-Hansen, and A. Thorhaug, Miami, University of Coral Gables, FL **ORDER FROM: GPO-**EP1.23: 660/3–74–003 $1.20 **NTIS-PB** 235 715/AS $3.20
660/3–74–004a	18A025	**Turbulent Diffusion in Liquid Jets: Part I** BY C. H. Tinsley, W. S. Stevenson, and V. W. Goldschmidt, Purdue University Lafayette, IN **ORDER FROM: GPO-**EP1.23: 660/3–74–004a $1.15 **NTIS-PB** 234 170
660/3–74–004b	18A025	**Turbulent Diffusion in Liquid Jets: Final Report** BY S. C. Chaung, and V. W. Goldschmidt, Purdue University Lafayette, IN **ORDER FROM: GPO-**EP1.23: 660/3–74–004b $1.70 **NTIS-PB** 234 171
660/3–74–005		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3–74–006	18A021	**Culturing and Ecology of Diaptomus Clavipes and Cyclops Vernalis** BY A. Robertson, C. W. Gehrs, B. D. Hardin, and G. W. Hunt, Oklahoma, University of Norman, OK **ORDER FROM: GPO-**EP1.23: 660/3–74–006 $2.55 **NTIS-PB** 234 613/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/3–74–007	1BA031	**Biological Control of Aquatic Vegetation** BY T. Sturrock, Florida Atlantic University Boca Raton, FL **ORDER FROM: NTIS-PB** 238 909/AS $5.25
660/3–74–008	1BA021	**Low Winter Dissolved Oxygen in Some Alaskan Rivers** Arctic Environmental Research Laboratory, EPA College, AK **ORDER FROM: GPO-**EP1.23: 660/3–74–008 $0.80 **NTIS-PB** 234 443
660/3–74–009	1BA021	**Environmental Guidelines for Development Roads in the Subarctic** BY F. B. Lotspeich, Arctic Environmental Research Laboratory, EPA College, AK BY A. E. Helmers, U.S. Forest Service Fairbanks, AK **ORDER FROM: GPO-**EP1.23/2:660/3–74–009 $1.15 **NTIS-PB** 235 932/AS
660/3–74–010		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3–74–011	1AA006	**Bio-Environmental Impact of Air Pollution from Fossil Fuel Power Plants** National Ecological Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23: 660/3–74–011 $0.75 **NTIS-PB** 237 720/AS $3.50
660/3–74–012	1AA006	**Heavy Metal Accumulation in Soil and Vegetation From Smelter Emissions** BY H. C. Ratsch, National Ecological Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23: 660/3–74–012 $0.80 **NTIS-PB** 237 719/AS
660/3–74–013	1EA077	**Theoretical Model and Solubility Characteristics of Aroclor R 1254 in Water: Problems Associated with Low-Solubility Compounds in Aquatic Toxicity Test — Abstracted 600/9–75–001a** —BY W. P. Schoor, Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL **ORDER FROM: NTIS-PB** 240 550/AS $3.75
660/3–74–014	1BA032	**Studies on Effects of Thermal Pollution in Biscayne Bay in Florida** BY M. Roessler, and D. C. Jabb, Rosenstiel School of Marine and Atmospheric Science, University of Miami Miami, FL **ORDER FROM: GPO-**EP1.23: 660/3–74–014 $2.25 **NTIS-PB** 239 328/AS
660/3–74–015	1BA031	**Sediments and Sediment-Water Nutrient Interchanges in Upper Klamath Lake, Oregon** BY A. R. Gahler, C. F. Powers, and W. D. Sanville, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23: 660/3–74–015 $1.10 **NTIS-PB** 238 470/AS
660/3–74–016	1BA025	**Significance and Control of Waste Water Floatables in Coastal Waters** BY R. E. Selleck, L. Bricewell, and R. Caster, California, University of Berkeley, CA **ORDER FROM: GPO-**EP1.23: 660/3–74–016 $2.00 **NTIS-PB** 239 938 $5.75
660/3–74–017	1BA031	**Silt Removal From a Lake Bottom — Abstracted 600/9–75–001a** —Lake Herman Development Associates, Inc. Madison, SD **ORDER FROM: NTIS-PB** 241 250 $3.75
660/3–74–018	1AA006	**Sulfur Content of Douglas Fir Foliage Near a Paper Mill** BY H. C. Ratsch, National Ecological Research Laboratory, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23: 660/3–74–018 $0.65 **NTIS-PB** 237 755/AS
660/3–74–019	1BA031	**Research and Development of a Selective Algaecide to Control Nuisance Algal Growth-Phase III** BY W. F. McIlhenny, Dow Chemical Company Freeport, TX **ORDER FROM: GPO-**EP1.23: 660/3–74–019 $2.95 **NTIS-PB** 238 487/AS
660/3–74–020	1BA031	**Estimating Nutrient Loadings of Lakes from Non-Point Sources** BY P. D. Uttormark, Wisconsin, University of Madison, WI **ORDER FROM: GPO-**EP1.23: 660/3–74–020 $1.90 **NTIS-PB** 238 355/AS $3.90
660/3–74–021	1BA023	**Mercury in the Aquatic Systems: Metholation, OxidationReduction; in Bio Accumulation** BY H. W. Holm, and M. F. Cox, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: GPO-**EP1.23: 660/3–74–021 $1.05 **NTIS-PB** 239 329/AS
660/3–74–022	1BA031	**An Investigation of Ion Removed From Water and Wastewater** BY R. J. Starkey, General Electric Company Philadelphia, PA **ORDER FROM: GPO-**EP1.23: 660/3–74–022 $1.95 **NTIS-PB** 240 158/AS $5.75
660/3–74–023	1BA031	**Limnological Studies of Flat-head, Montana: A Status Report** BY A. R. Gaufin, G. W. Prescott, and J. F. Tibbs, Montana, University of Missoula, MT **ORDER FROM:** Pending
660/3–74–024	1EA487	**Conceptual Model for the Movement of Pesticides Through the Environment** BY J. W. Gillett, J. Hill IV, and A. W. Jaryinen, National Ecological Research Laboratory, EPA Corvallis, OR BY W. P. Schoor, Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL **ORDER FROM: NTIS-PB** 238 653/AS $4.75
660/3–74–025	1BA023	**Fate of Select Pesticides in the Aquatic Environment** BY J. R. Sanborn, Illinois, University of, Illinois Natural History Survey Urbana, IL **ORDER FROM: GPO-**EP1.23: 660/3–74–025 $1.55 **NTIS-PB** 239 749/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/3-74-026	1BA022	**Development of Sample Preparation Methods for Development of Marine Organisms** BY H. C. McKee, and D. S. Tarazi, Southwest Research Institute Houston, TX **ORDER FROM: GPO-**EP1.23: 660/3-74-026 $1.05 **NTIS-PB** 234 201 $3.75
660/3-74-027	1BA022	**Pharmacokinetics of Toxic Elements in Rainbow Trout** BY E. J. Massaro, New York, University of Buffalo, NY **ORDER FROM: NTIS-PB** 242 124/AS $3.75
660/3-74-028	1BA026	**Cladophora Distribution in Lake Ontario (IFYGL) — Abstracted 600/9-75-001a** --BY C. T. Wezernak, D. R. Lezenga, and F. C. Polcyn, Environmental Research Institute of Michigan Ypsilanti, MI **ORDER FROM: NTIS-PB** 240 307/AS $4.75
660/3-74-029	1BA026	**Future Dredging Quantities in the Great Lakes — Abstracted 600/9-75-001a** --BY C. N. Raphael, E. Jaworski, C. Ojala, and D. S. Turner, Eastern Michigan University Ypsilanti, MI **ORDER FROM: NTIS-PB** 240 741/AS $7.50
660/3-74-030		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3-74-031	1BA022	**Environmental Requirements of Selected Estuarine Ciliated Protozoa — Abstracted 600/9-75-001b** —BY A. C. Borror, New Hampshire, University of Durham, NH **ORDER FROM: NTIS-PB** 242 125/AS $4.25
660/3-74-032	1BA031	**Nutrient Inactivation As A Lake Restoration Procedure — I. Laboratory Investigations** BY S. A. Peterson, W. D. Sanville, F. S. Stay, and C. F. Powers, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 239 969/AS $5.75
660/3-74-033	1BA024	**Salt Water Detection in the Cimarron Terrace, Oklahoma — Abstracted 600/9-75-001a** —Oklahoma Water Resources Board Oklahoma City, OK **ORDER FROM: NTIS-PB** 242 269/AS $7.00
660/3-74-034	1BA031	**Eutrophication of Lake Tahoe Emphasizing Water Quality** BY C. R. Goldman, California, University of Davis, CA **ORDER FROM: NTIS-PB** 240 318/AS $11.25
660/3-75-001	1EA077	**Impact of the Use of Microorganisms on the Aquatic Environment — Abstracted 600/9-75-001a** —BY D. G. Ahearn, Georgia State University Atlanta, GA BY A. W. Bourquin, Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL BY S. P. Meyers, Louisiana State University Baton Rouge, LA **ORDER FROM: NTIS-PB** 240 159/AS $8.50
660/3-75-002	1BA032	**Effect of Meteorological Variables on Temperature Changes in Flowing Streams — Abstracted 600/9-75-001a** —BY R. W. Troxler, and E. L. Thackston, Vanderbilt University Nashville, TN **ORDER FROM: NTIS-PB** 240 285/AS $4.75
660/3-75-003	1BA031	**Eutrophication of Surface Waters—Lake Tahoe's Indian Creek Reservoir — Abstracted 600/9-75-001a** — Lake Tahoe Area Council South Lake Tahoe, CA **ORDER FROM: NTIS-PB** 240 725/AS $7.00
660/3-75-004	1BA026	**Phytoplankton Composition and Abundance in Lake Ontario During IFYGL — Abstracted 600/9-75-001a** -- BY E. F. Stoermer, M. M. Bowman, J. C. Kingston, and A. L. Schaedel, Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS-PB** 241 009/AS $10.25
660/3-75-005	1BA026	**Mathematical Modeling of Phytoplankton in Lake Ontario — Abstracted 600/9-75-001a** —BY R. V. Thomann, R. P. Winfield, and D. M. DiToro, Manhattan College Bronx, NY **ORDER FROM: NTIS-PB** 241 046/AS $7.00
660/3-75-006	1BA026	**Phosphorus Uptake and Release by Lake Ontario Sediments — Abstracted 600/9-75-001a** —BY R. T. Bannerman, D. E. Armstrong, R. F. Harris, and G. C. Holdren, Wisconsin, University of Madison, WI **ORDER FROM: NTIS-PB** 240 614/AS $4.25
660/3-75-007	1BA023	**Microbial Degradation and Accumulation of Pesticides in Aquatic Systems** BY D. F. Paris, D. L. Lewis, Jr., J. T Barnett, and G. L. Baughman, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 241 293/AS $4.25
660/3-75-008	1BA031	**Marine Algal Assay Procedure Bottle Test — Abstracted 600/9-75-001a** —National Environmental Research Center, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 239 709/AS $4.25
660/3-75-009	1BA021	**Methods for Acute Toxicity Tests with Fish, Macroinvertebrates, and Amphibians — Abstracted 600/9-75-001a** —National Water Quality Laboratory, EPA Duluth, MN **ORDER FROM: NTIS-PB** 242 105/AS $4.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/3-75-010	1BA021	**Studies to Determine Methods for Culturing Three Freshwater Zooplankton Species — Abstracted 600/9-75-001a** —BY D. B. Martin, and J. F. Novotny, U.S. Fish and Wildlife Service Yankton, SD **ORDER FROM: NTIS-PB** 242 764/AS $3.75
660/3-75-011	1BA021	**Acquisition and Culture of Research Fish — Abstracted 600/9-75-001a** —BY J. L. Brauhn, and R. A. Schoettger, U.S. Department of the Interior Columbia, MO **ORDER FROM: NTIS-PB** 243 012/AS $4.25
660/3-75-012	1BA023	**Modeling Dynamics of Biological and Chemical Components of Aquatic Ecosystems — Abstracted 600/9-75-001a** —BY R. R. Lassiter, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 246 901/AS $4.50
660/3-75-013	1BA025	**Analysis of the Dynamics of DDT in Marine Sediments — Abstracted 600/9-75-001a** —BY J. H. Phillips, E. E. Haderlie, and W. L. Lee, Stanford University Pacific Grove, CA **ORDER FROM: NTIS-PB** 238 511/AS $5.25
660/3-75-014	1BA032	**Flow Establishment and Initial Entrainment of Heated Water Surface Jets — Abstracted 600/9-75-001a** — BY H. Stefan, L. Bergstedt, and E. Mrosla, Minnesota, University of Minneapolis, MN **ORDER FROM: NTIS-PB** 243 744/AS $6.25
660/3-75-015	1EA077	**Effects of Mirex and Methoxychlor on Striped Mullet, Mugil cephalus L. — Abstracted 600/9-75-001a** —BY C. E. Nash, and J. R. Sylvester, Oceanic Foundation Waimanalo, HI **ORDER FROM: NTIS-PB** 241 635/AS $3.75
660/3-75-016	1BA022	**Toxicity of Selected Pesticides to the Bay Mussel (Mytilus edulis) — Abstracted 600/9-75-001b** —BY D. H. Liu, and J. M. Lee, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 243 221/AS $5.75
660/3-75-017	1BA021	**Temperature Effects on Eggs and Fry of Percoid Fishes — Abstracted 600/9-75-001b** —BY L. L. Smith Jr., and W. M. Koenst, Minnesota, University of St. Paul, MN **ORDER FROM: NTIS-PB** 242 746/AS $5.25
660/3-75-018	1BA024	**Ground-Water Pollution Problems in the Northwestern United States — Abstracted 600/9-75-001b** —BY F. Van der Leeden, L. A. Cerrillo, and D. W. Miller, Geraghty and Miller, Inc. Port Washington, NY **ORDER FROM: NTIS-PB** 242 860/AS $10.25
660/3-75-019	1BA021	**Chena River—A Study of a Subarctic Stream — Abstracted 600/9-75-001b** —BY P. J. Frey, E. W. Mueller, and E. C. Berry, Arctic Environmental Research Laboratory, EPA College, AK **ORDER FROM: NTIS-PB** 197 857 $7.00
660/3-75-020	1BA021	**Effects of Forest Fires on Water Quality in Interior Alaska — Abstracted 600/9-75-001b** —BY F. B. Lotspeich, E. W. Mueller, and P. J. Frey, Arctic Environmental Research Laboratory, EPA College, AK **ORDER FROM: NTIS-PB** 241 922/AS $5.25
660/3-75-021	1BA026	**Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations — Abstracted 600/9-75-001c** —BY D. C. McNaught, M. Buzzard, and S. Levine, New York, State University of Albany, NY **ORDER FROM: NTIS-PB** 244 414/AS $6.25
660/3-75-022	1BA026	**Chlorinated Hydrocarbons in the Lake Ontario Ecosystem (IFYGL) — Abstracted 600/9-75-001b** —BY C. L. Haile, G. D. Veith, G. F. Lee, and W. C. Boyle, Wisconsin, University of Madison, WI **ORDER FROM: NTIS-PB** 243 364/AS $3.75
660/3-75-023		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3-75-024	1EA077	**Effect of Mirex and Carbofuran on Estuarine Microorganisms — Abstracted 600/9-75-001b** —BY L. R. Brown, E. G. Alley, and D. W. Cook, Mississippi State University Jackson, MS **ORDER FROM: NTIS-PB** 247 147/AS $4.50
660/3-75-025	1BA025	**Tidal Flats in Estuarine Water Quality Analysis — Abstracted 600/9-75-001c** —BY D. A. Bella, Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 248 196 $7.50
660/3-75-026	1BA022	**Environmental Studies of an Arctic Estuarine System — Abstracted 600/9-75-001c** —BY V. Alexander, D. C. Burrell, J. Chang, R. T. Cooney, C. Coulon, J. J. Crane, J. A. Dygas, G. E. Hall, and P. J. Kinney, Alaska, University of Fairbanks, AK **ORDER FROM:** Pending
660/3-75-027	1BA031	**Nutritional Ecology of Nuisance Aquatic Plants — Abstracted 600/9-75-001c** —BY G. C. Gerloff, Wisconsin, University of Madison, WI **ORDER FROM: NTIS-PB** 244 263/AS $4.75
660/3-75-028		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3-75-029		**(No. Cancelled) ORDER FROM:** (No. Cancelled)

BIBLIOGRAPHIC SECTION

REPORT NO.		
660/3-75-030	1BA024	**Nitrogen in the Subsurface Environment — Abstracted 600/9-75-001c** —BY M. L. Rowe, and S. Stinnett, Oklahoma State University Ada, OK **ORDER FROM:** Pending
660/3-75-031		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
660/3-75-032	1AA006	**Chemical/Biological Relationships Relevant to Ecological Effects of Acid Rainfall — Abstracted 600/9-75-001c** —BY J. O. Reuss, National Ecological Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 244 409/AS $4.25
660/3-75-033	1BA031	**Lake Classification — A Trophic Characterization of Wisconsin Lakes — Abstracted 600/9-75-001c** —BY P. D. Uttormark, and J. P. Wall, Wisconsin, University of Madison, WI **ORDER FROM: NTIS-PB** 247 177/AS $6.75
660/3-75-034	1BA031	**Proceedings: Biostimulation-Nutrient Assessment Workshop — Abstracted 600/9-75-001c** —Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 247 229/AS $9.75
660/3-75-035	1EA077	**Microbial-Malathion Interaction in Artificial Salt-Marsh Ecosystems: Effects and Degradation — Abstracted 600/9-75-001c** —BY A. W. Bourquin, Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL **ORDER FROM: NTIS-PB** 246 251/AS $4.25
660/3-75-036	1AA006	**Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms — Abstracted 600/9-75-001c** —BY H. Bond, B. Lighthart, R. Shimabuku, and L. Russell, National Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 245 035/AS $3.75
660/3-75-037	1BA032	**Improving the Statistical Reliability of Stream Heat Assimilation Prediction — Abstracted 600/9-75-001c** —BY R. W. McLay, M. S. Hundal, and K. R. Lamborn, Richard McLay, Consulting Engineers Essex Junction, VT **ORDER FROM: NTIS-PB** 246 250/AS $6.25
660/3-75-038	1BA032	**Evaluation of Mathematical Models for Temperature Prediction in Deep Reservoirs — Abstracted 600/9-75-001c** —BY F. L. Parker, B. A. Benedict, and C. Tsai, Vanderbilt University Nashville, TN **ORDER FROM: NTIS-PB** 246 576/AS $8.00
660/3-75-039	1BA032	**Analysis of Multiple Cell Mechanical Draft Cooling Towers — Abstracted 600/9-75-001c** —BY L. R. Davis, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 244 807/AS $3.75
660/4-75-001	1BA027	**Determination of Molecular Hydrogen Sulfide — Abstracted 600/9-75-001a** —BY T. B. Hoover, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 242 824/AS $3.75
660/4-75-002	1BA027	**Aqueous Odor Thresholds of Organic Pollutants in Industrial Effluents — Abstracted 600/9-75-001a** —BY D. A. Lillard, and J. J. Powers, Georgia, University of Athens, GA **ORDER FROM: NTIS-PB** 242 734/AS $3.75
660/4-75-003	1BA027	**Isolating Organic Water Pollutants: XAD Resins, Urethane Foams, Solvent Extraction — Abstracted 600/9-75-001c** —BY R. G. Webb, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 245 647/AS $3.75
660/4-75-004	1BA027	**Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 74 — Abstracted 600/9-75-001c** —BY A. L. Alford, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 247 056/AS $4.00
660/4-75-005	1BA027	**Analysis of Organic Compounds in Two Kraft Mill Wastewaters — Abstracted 600/9-75-001c** —BY L. W. Keith, Southeast Environmental Research Laboratory, EPA Athens, GA **ORDER FROM: NTIS-PB** 247 698 $5.50
660/9-74-001	1RW103	**Bibliography of Publications and Reports of the Pacific Northwest Environmental Research Laboratory** BY B. McCauley, Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR **ORDER FROM:** Library, NERC-Corvallis, 200 S.W. 35th, Corvallis, OR 97330
660/9-74-002	1BB045	**Great Lakes Water Quality — Status of Pertinent EPA Research — Abstracted 600/9-75-001a** —BY A. F. Bartsch, C. Frank, and S. Peterson, National Environmental Research Center, EPA Corvallis, OR **ORDER FROM:** NERC – Corvallis, 200 S. W. 35th, Corvallis, OR 97330
670/1-73-001		**670/1-73-001 thru 670/1-73-035 are Unassigned numbers and will remain Unassigned ORDER FROM:** (Unassigned)
670/1-73-036	1RA103	**Annual Report for Calendar Year 1972, Environmental Toxicology Research** National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM:** NERC, Cincinnati, OH 45268

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/1–74–001	1CA046	**Pricing for Water Supply: Its Impact on Systems Management** BY R. M. Clark, and H. C. Goddard, National Environmental Research Center, Program Coordination Staff Cincinnati, OH **ORDER FROM: NTIS–PB** 231 073/AS $3.25
670/1–75–001	1CA046	**Evaluation of Semipermeable Membranes for Concentration of Organic Contaminants in Drinking Water --- Abstracted 600/9–75–001c** --BY I. Cabasso, C. S. Eyer, E. Klein, and J. K. Smith, Gulf South Research Institute New Orleans, LA **ORDER FROM: NTIS–PB** 243 245/AS $7.00
670/2–73–001	1DB064	**Physical, Chemical and Microbiological Methods of Solid Waste Testing** BY D. F. Bender, M. L. Peterson, and H. Stierli, Solid Waste Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 220 479 $6.75
670/2–73–002		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–003	1BA027	**Viruses in Waste Renovated and Other Viruses – 1972 Literature Abstracts** BY G. Berg, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM:** NERC-CINCINNATI, OHIO 45268
670/2–73–004		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–005	1DB314	**Utilization of Bark Waste** BY R. A. Currier, and M. L. Laver, Oregon State University, School of Forestry Corvallis, OR **ORDER FROM: NTIS–PB** 221 876 $7.00
670/2–73–006	1DB063	**Investigation of Corrosion Deposition Phenomena on Gas Turbine Blades** BY L. R. Fleischer, Westinghouse Research Laboratories Pittsburgh, PA **ORDER FROM: NTIS–PB** 221 095 $3.75
670/2–73–007		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–008		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–009	1DB314	**Biological Conversion of Animal Wastes to Nutrients** BY B. F. Miller, Colorado State University, Department of Avian Science Fort Collins, CO **ORDER FROM: NTIS–PB** 221 171 $4.75
670/2–73–010	1DB314	**Preparation and Evaluation of Activated Carbon Produced from Municipal Refuse** BY M. K. Stevenson, J. O. Leckie, and R. Eliassen, Stanford University, Department of Civil Engineering Stanford, CA **ORDER FROM: NTIS–PB** 221 172 $5.75
670/2–73–011	1DB314	**Acid Hydrolysis of Cellulose in Refuse to Sugar and Its Fermentation to Alcohol** BY A. O. Converse, H. E. Grethlein, S. Karandikar, and S. Kuhrtz, Dartmouth College Hanover, NH **ORDER FROM: NTIS–PB** 221 239 $5.25
670/2–73–012		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–013	1DB314	**Analysis of the Abandoned Automobile Problem** Booz-Allen Applied Research, Inc. Bethesda, MD **ORDER FROM: NTIS–PB** 221 879 $6.00
670/2–73–014	1DB311	**Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume I** Booz-Allen Applied Research, Inc. Bethesda, MD **ORDER FROM: NTIS–PB** 221 465 $10.60
670/2–73–015	1DB311	**Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume II** Booz-Allen Applied Research, Inc. Bethesda, MD **ORDER FROM: NTIS–PB** 221 466 $12.50
670/2–73–016	1DB311	**Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume III** Booz-Allen Applied Research, Inc. Bethesda, MD **ORDER FROM: NTIS–PB** 221 467 $10.60 Three Volume Set – PB 221 464 $21.00
670/2–73–017	1DB064	**Municipal Waste Disposal by Shipborne Incineration and Sea-Disposal of Residues** BY M. W. First, Harvard University School of Public Health Boston, MA **ORDER FROM: NTIS–PB** 221 684 $32.25
670/2–73–018		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–019		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–020		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–73–021	1DB064	**Preventing Landfill Leachate Contamination of Water** BY E. J. Wren, Gulf South Research Institute Baton Rouge, LA **ORDER FROM: NTIS–PB** 222 468 $5.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-022	1BB043	**Evaluation of the Bio-Disc Treatment Process for Summer Camp Application** BY W. A. Sack, and S. A. Phillips, West Virginia University Morgantown, VA **ORDER FROM: GPO-**EP1.23/2:670/2-73-022 $1.05 **NTIS-PB** 225 126/2AS
670/2-73-023	1DB063	**Incineration of Bulky Refuse Without Prior Shredding** BY E. L. Kaiser, New York University, School of Engineering and Science, Department of Chemical Engineering Bronx, NY **ORDER FROM: NTIS-PB** 221 731 $4.75
670/2-73-024	1BB033	**Instream Aeration to Control Dissolved Sulfide in Sanitary Sewers** BY R. L. Conden Jr., De Laureal Engineers, Inc. New Orleans, LA **ORDER FROM: NTIS-PB** 223 342 $4.75
670/2-73-025	1DB063	**Recirculating Waste System for Swine Units** BY J. R. Miner, Iowa State University, Department of Agricultural Engineering Ames, IA **ORDER FROM: NTIS-PB** 221 621 $14.50
670/2-73-026		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-027	1BB043	**Rotating Biological Disk Wastewater Treatment Process – Pilot Plant Evaluation** BY W. N. Torpey, H. Heukelekian, and A. J. Kaplovsky, Rutgers University New Brunswick, NJ **ORDER FROM: NTIS-PB** 232 133/AS $8.50
670/2-73-028		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-029	1BB043	**Disinfection of Sewage Effluents** BY F. W. Solls Jr., H. F. Mueller, and T. E. Larson, Illinois, University of, Illinois State Water Survey Urbana, IL **ORDER FROM: NTIS-PB** 222 355 $4.75
670/2-73-030	1DB314	**Radiolytic Hydrolysis of Cellulose** BY J. A. Kelly, Virginia, University of Charlottesville, VA **ORDER FROM: NTIS-PB** 221 877 $3.25
670/2-73-031	1BB043	**U-Tube Aeration** BY R. C. Mitchell, North American Rockwell Corporation Canoga Park, CA **ORDER FROM: GPO-**EP1.23/2:670/2-73-031 $2.00 **NTIS-PB** 228 127/AS
670/2-73-032	1DB063	**First Annual Progress Report on a Study of Corrosion in Municipal Incinerators** BY D. A. Vaughan, and P. D. Miller, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 221 851 $3.75
670/2-73-033	1BB043	**Hydrogen Peroxide Cures Filamentous Growth in Activated Sludge** BY C. A. Cole, J. B. Stamberg, and D. F. Bishop, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-033 $0.65 **NTIS-PB** 231 848
670/2-73-034	1DB311	**Wood Waste Reuse in Controlled Release Pesticides** BY G. G. Allan, Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 222 051 $4.85
670/2-73-035		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-036		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-037	1BB033	**Alum Addition to Activated Sludge With Tertiary Solids Removal** BY J. B. Stamberg, and D. F. Bishop, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-037 $0.65 **NTIS-PB** 225 028/0AS
670/2-73-038	1DB064	**Use of Domestic Waste Glass for Urban Paving** BY W. R. Malisch, D. E. Day, and B. G. Wixson, Missouri, University of, Department of Civil Engineering Rolla, MO **ORDER FROM: NTIS-PB** 222 052 $5.25
670/2-73-039	1DB314	**Pyrolysis of Solid Municipal Wastes** BY D. A. Hoffman, San Diego Utilities Department San Diego, CA **ORDER FROM: NTIS-PB** 222 015 $4.85
670/2-73-040	1BB043	**Nitrogen Removal By Ammonia Stripping** BY T. P. O'Farrell, D. F. Bishop, and A. H. Cassel, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-040 $0.65 **NTIS-PB** 231 371
670/2-73-041	1DB063	**Effect of Processing Poultry Manure on Disease Agents** BY J. R. Howes, C. F. Hall, and W. F. Krueger, Texas A&M University College Station, TX **ORDER FROM: NTIS-PB** 222 148 $3.75
670/2-73-042	1BB033	**Activated Sludge Process Using Pure Oxygen** BY E. A. Wilcox, and S. O. Akinbami, Union Carbide Corporation Tonawanda, NY **ORDER FROM: GPO-**EP1.23/2:670/2-73-042 $0.95 **NTIS-PB** 235 572/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-043	1BB043	**Summary Report – Pilot Plant Studies on Dewatering Primary Digested Sludge** BY J. D. Parkhurst, Los Angles County Sanitation District Los Angeles, CA **ORDER FROM: GPO-**EP1.23/2:670/2-73-043 $2.10 **NTIS-PB** 224 798/AS
670/2-73-044	1BB043	**Mathematical Model for Post Aeration** BY R. Smith, R. G. Eilers, and E. D. Hall, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 222 031 $3.75
670/2-73-045	1BB043	**Mathematical Model for Aerobic Digestion** BY R. Smith, R. G. Eilers, and E. D. Hall, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 222 029 $3.75
670/2-73-046	1BB043	**Design and Simulation of Equalization Basins** BY R. Smith, R. G. Eilers, and E. D. Hall, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 222 000 $4.50
670/2-73-047a	1BB043	**Methods for Improvement of Trickling Filter Plant Performance, Part I – Mechanical and Biological Optima** BY J. C. Brown, North Carolina, University of Chapel Hill, NC **ORDER FROM: GPO-**EP1.23/2:670/2-73-047a $2.30 **NTIS-PB** 224 715/AS
670/2-73-047b		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-048	1DB063	**Hospital Solid Waste Disposal in Community Facilities** BY A. F. Iglar, and R. G. Bond, Minnesota, University of, Division of Environmental Health Minneapolis, MN **ORDER FROM: NTIS-PB** 222 018 $9.00
670/2-73-049	1DB063	**Combustion Products from the Incineration of Plastics** BY E. A. Boettner, G. Ball, and B. Weiss, Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS-PB** 222 001 $6.25
670/2-73-050	1BB043	**200 MGD Activated Sludge Plant Removes Phosphorus by Pickle Liquor** BY R. D. Leary, Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO-**EP1.23/2:670/2-73-050 $1.50 **NTIS-PB** 228 561/AS
670/2-73-051	1DB063	**Survival of Pathogens in Animal Manure Disposal** BY S. L. Diesch, B. S. Pomeroy, and E. R. Albred, Minnesota, University of St. Paul, MN **ORDER FROM: NTIS-PB** 222 337 $5.75
670/2-73-052	1DB314	**Nitrite-Accelerated Photochemical Degradation of Cellulose as a Pretreatment for Microbiological Conversion to Protein** BY A. Fookson, and G. Frohnsdorff, Gillette Research Institute Rockville, MD **ORDER FROM: NTIS-PB** 222 115 $5.25
670/2-73-053A	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume I – Summary Report** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 580/AS $7.25
670/2-73-053A-P	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume I thru Volume XVI** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 579-SET/AS $100.00 (entire 16 volume set)
670/2-73-053B	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume II – Toxicologic Summary** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 581/AS $7.50
670/2-73-053C	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume III – Disposal Process Discriptions: Ultimate Disposal Incineration, and Pyrolysis Processes** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 582/AS $8.50
670/2-73-053D	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volum IV – Disposal Process Descriptions: Biological and Miscellaneous Waste Treatment Processes** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 583/AS $5.75
670/2-73-053E	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume V – National Disposal Site Candidate Waste Stream Constituent Profile Reports – Pesticides and Cyanide Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 584/AS $5.75
670/2-73-053F	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VI – National Disposal Site Candidate Waste Stream Constituent Profile Report – Mercury, Arsenic, Chromium and Cadmium Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 585/AS $7.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-053G	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VII – National Disposal Site Candidate Waste Stream Constituent Profile Report – Propellants, Explosives, and Chemical Warfare Material** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 586/AS $8.75
670/2-73-053H	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VIII – National Disposal Site Candidate Waste Stream Constituent Profile Report – Miscellaneous Inorganic and Organic Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 587/AS $4.75
670/2-73-053I	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume IX – National Disposal Site Candidate Waste Stream Constituent Profile Report – Radioactive Materials** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 588/AS $6.25
670/2-73-053J	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume X – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Organic Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 589/AS $9.25
670/2-73-053K	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XI – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Organic Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 590/AS $8.50
670/2-73-053L	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XII – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Inorganic Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 591/AS $9.50
670/2-73-053M	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XIII – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Inorganic Compounds** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 592/AS $9.25
670/2-73-053N	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XIV – Summary of Waste Origins, Forms and Quantities** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 593/AS $6.25
670/2-73-053O	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XV – Research and Development Plans** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 594/AS $5.25
670/2-73-053P	1DB311	**Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XVI – References** BY R. S. Ottinger, TRW Systems Group Redondo Beach, CA **ORDER FROM: NTIS-PB** 224 595/AS $11.25
670/2-73-054	1BB040	**Gas Requirements to Pressurize Abandoned Deep Mines** BY J. D. Robins, Pennsylvania, State of, Department of Environmental Resources Pittsburgh, PA Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: GPO-**EP1.23/2:670/2-73-054 $2.00 **NTIS-PB** 224 831/6AS
670/2-73-055		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-056	1DB314	**Problems and Opportunities in Management of Combustible Solid Wastes** International Research and Technology Corporation Washington, DC **ORDER FROM: NTIS-PB** 222 467 $12.25
670/2-73-057	1DB063	**Study of Incinerator Residue Analysis of Water Soluble Components** BY R. J. Schoenberger, and P. W. Purdom, Drexel University, Environmental Engineering Program Philadelphia, PA **ORDER FROM: NTIS-PB** 222 458 $9.25
670/2-73-058	1BB033	**Ammonia Nitrogen Removal By Breakpoint Chlorination** BY T. A. Pressley, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-058 $0.95 **NTIS-PB** 231 378
670/2-73-059	1BB034	**Dual Functioning Swirl Combined Sewer Overflow Regulator/ Concentrator** BY R. Field, Edison Water Quality Laboratory, EPA Edison, NJ **ORDER FROM: GPO-**EP1.23/2:670/2-73-059 $2.20 **NTIS-PB** 227 182/3

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-060	1BB033	**Enhancing Trickling Filter Plant Performance By Chemical Precipitation** BY R. E. Derrington, D. H. Stevens, and J. E. Laughlin, Richardson, City of Richardson, TX **ORDER FROM: GPO-**EP1.23/2:670/2-73-060 $1.45 **NTIS-PB** 224 929/0AS
670/2-73-061	1DB064	**Thermophilic Aerobic Digestion of Organic Solid Wastes** BY J. F. Andrews, and K. Kambhu, Clemson University, Environmental Systems Engineering Department Clemson, NC **ORDER FROM: NTIS-PB** 222 396 $4.75
670/2-73-062	1BB043	**Sludge Conditioning Using SO_2 and Low Pressure for Production of Organic Feed Concentrate** BY M. S. Weinburg, Foster D. Snell, Inc. Florham Park, NJ **ORDER FROM: NTIS-PB** 223 343 $6.25
670/2-73-063	1DB064	**Composted Municipal Refuse as a Soil Amendment** BY C. C. Hortenstine, and D. F. Rothwell, Florida, University of Gainesville, FL **ORDER FROM: NTIS-PB** 222 422 $4.25
670/2-73-064	1BB043	**Pilot – Demonstration Project for Industrial Reuse of Renovated Municipal Wastewater** BY G. A. Harstkatte Jr., Walnut Creek Central Control Sanitary District Walnut Creek, CA **ORDER FROM: GPO-**EP1.23/2:670/2-73-064 $1.55 **NTIS-PB** 224 507/AS
670/2-73-065	1DB063	**Studies on Modifications of Solid Industrial Wastes** BY C. S. Gove, and C. M. Antoni, Syracuse University, Department of Civil Engineering Syracuse, NY **ORDER FROM: NTIS-PB** 222 419 $7.00
670/2-73-066	1DB314	**Study on Technical and Economic Feasibility of a Hydrogenation Process for Utilization of Waste Rubber** BY R. H. Wolk, and C. A. Battista, Hydrocarbon Research, Inc. Trenton, NJ **ORDER FROM: NTIS-PB** 222 694 $6.25
670/2-73-067	1BB034	**Hypochlorination of Pollution Stormwater Pumpage at New Orleans** BY U. R. Pontuies, E. H. Pavia, and D. G. Crowder, Byrne Engineering Corporation New Orleans, LA **ORDER FROM: GPO-**EP1.23/2:670/2-73-067 $1.95 **NTIS-PB** 228 581/AS
670/2-73-068	1BB041	**Oil Recovery System Using Sorbent Material** BY G. D. Gumtz, and T. P. Meloy, Meloy Laboratories, Inc. Springfield, VA **ORDER FROM: GPO-**EP1.23/2:670/2-73-068 $4.00 **NTIS-PB** 229 576/AS
670/2-73-069	1BB041	**Fabric Boom Concept for Containment and Collection of Floating Oil** BY P. E. Bonz, Consultec, Inc. Rockville, MD **ORDER FROM: GPO-**EP1.23/2:670/2-73-069 $1.00 **NTIS-PB** 228 049/AS
670/2-73-070	1BB033	**Physical – Chemical Treatment of Raw Material Wastewater** BY D. F. Bishop, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-070 $1.05 **NTIS-PB** 231 250/AS
670/2-73-071	1BB034	**Utilization of Trickling Filters for Dual Treatment of Dry and Wet Weather Flows** BY P. Honack, K. L. Zippler, and E. C. Herkert, Elson T. Killam Associates, Inc. Milburn, NJ **ORDER FROM: GPO-**EP1.23/2:670/2-73-071 $1.50 **NTIS-PB** 231 251/AS
670/2-73-072	1DB063	**Pneumo-Slurry Pipeline Collection and Removal of Municipal Solid Waste** BY I. Zandi, Pennsylvania, University of, Towne School of Civil and Mechanical Engineering Philadelphia, PA **ORDER FROM: NTIS-PB** 223 162 $8.25
670/2-73-073	1BB043	**Activated Sludge Treatment Systems With Oxygen** BY J. B. Stanbery, D. F. Bishop, and A. B. Hais, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-073 $0.90 **NTIS-PB** 231 379
670/2-73-074	1BB043	**Study of Upflow Filter for Tertiary Treatment** BY J. E. Morrison, De Laureal Engineers, Inc. New Orleans, LA **ORDER FROM: GPO-**EP1.23/2:670/2-73-074 $5.25 **NTIS-PB** 223 354
670/2-73-075	1BB043	**Laboratory Ozonation of Municipal Wastewater** BY S. G. Roan, D. F. Bishop, and T. A. Pressley, D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC **ORDER FROM: GPO-**EP1.23/2:670/2-73-075 $0.85 **NTIS-PB** 231 380
670/2-73-076	1BB043	**Selective Nutrient Removal Secondary Effluent** BY J. L. Eisenmann, and J. D. Smith, Process Research, Inc. Cambridge, MA **ORDER FROM: GPO-**EP1.23/2:670/2-73-076 $1.75 **NTIS-PB** 228 108/AS
670/2-73-077	1BB034	**Combined Sewer Overflow Seminar Papers — Abstracted 600/9-75-001e** —Edison Water Quality Laboratory, EPA Edison, NJ **ORDER FROM: GPO-**EP1.23/2:670/2-73-077 $2.20 **NTIS-PB** 231 836 $7.25
670/2-73-078	1BB041	**Treatment of Hazardous Material Spills With Floating Mass Transfer Media** BY B. W. Mercer, A. J. Shuckrow, and G. W. Dawson, Battelle Memorial Institute Richland, WA **ORDER FROM: GPO-**EP1.23/2:670/2-73-078 $1.25 **NTIS-PB** 228 050/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-079	1BA027	**Atomic Absorption Analysis of Phosphates in Water** BY C. O. Hubber, Wisconsin, University of Milwaukee, WI **ORDER FROM: NTIS-PB** 223 338 $3.75
670/2-73-080	1BB040	**Removal of Heavy Metals from Mine Drainage by Precipitation** BY L. W. Ross, Denver, University of Denver, CO **ORDER FROM: GPO-**EP1.23/2:670/2-73-080 $1.00 **NTIS-PB** 228 584/AS
670/2-73-081	1BB040	**Laboratory Study of Self-Sealing Limestone Plugs for Mine Openings** BY R. G. Penose Jr., Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA BY I. Holuec, E.D. Appolonia Consulting Engineers, Inc. Pittsburgh, PA **ORDER FROM: GPO-**EP1.23/2:670/2-73-081 $2.25 **NTIS-PB** 228 586/AS
670/2-73-082	1BB043	**New Microbial Indicators of Wastewater Chlorination Efficiency** BY R. S. Englebrecht, D. H. Foster, E. D. Greening, and S. H. Lee, Illinois, University of Urbana, IL **ORDER FROM: GPO-**EP1.23/2:670/2-73-082 $1.15 **NTIS-PB** 234 169
670/2-73-083	1DB063	**Study of Institutional Solid Wastes** BY J. C. Burchinal, West Virginia University, Department of Civil Engineering Morgantown, WV **ORDER FROM: NTIS-PB** 223 345 $7.50
670/2-73-084	1BB041	**Oil Recovery System Utilizing Polyurethane Foam—A Feasibility Study** BY R. A. Cochran, J. P. Fraser, and D. P. Hemphill, Shell Development Company Houston, TX **ORDER FROM: GPO-**EP1.23/2:670/2-73-084 $2.35 **NTIS-PB** 231 838
670/2-73-085	1DB063	**Poultry Manure Disposal by Plow-Furrow-Cover** Rutgers University, College of Agriculture and Environmental Science New Brunswick, NJ **ORDER FROM: NTIS-PB** 223 430 $5.50
670/2-73-086	1DB311	**Public Attitudes Toward Hazardous Waste Disposal Facilities** BY L. L. Lackey, T. O. Jacobs, and S. R. Stewart, Human Resources Research Organization Columbus, GA **ORDER FROM: NTIS-PB** 223 638/AS $7.00
670/2-73-087	1DB063	**Incineration of Plastics Found in Municipal Wastes** BY R. W. Heimburg, Syracuse University Research Corporation Syracuse, NY **ORDER FROM: NTIS-PB** 223 651/AS $7.50
670/2-73-088	1BB038	**Demonstration of a Non-Aqueous Sewage Disposal System** BY F. L. Matthew, and E. E. Neshein, Black Hill Conservancy Sub-District Rapid City, SD **ORDER FROM: GPO-**EP1.23/2:670/2-73-088 $1.60 **NTIS-PB** 231 338/AS
670/2-73-089A	1DB063	**Design and Control of Incinerators, Volume I** BY A. F. Sarofim, Massachusetts Institute of Technology, Chemical Engineering Department Cambridge, MA **ORDER FROM: NTIS-PB** 223 626/AS $7.00
670/2-73-089B	1DB063	**Design and Control of Incinerators, Volume II – Appendices** BY A. F. Sarofim, Massachusetts Institute of Technology, Chemical Engineering Department Cambridge, MA **ORDER FROM: NTIS-PB** 223 626/AS $6.50
670/2-73-090	1DB314	**Utilization of Fibrous Wastes as Sources of Nutrients** BY J. M. Leatherwood, North Carolina State University, Department of Animal Science Raleigh, NC **ORDER FROM: NTIS-PB** 223 625/AS $3.00
670/2-73-091	1DB314	**Metallurgical Upgrading of Automotive Scrap Steel** BY O. N. Carlson, and F. A. Schmidt, Ames Laboratory, U.S. Atomic Energy Commission, Metallurgy Division, Iowa State University Ames, IA **ORDER FROM: NTIS-PB** 223 740 $4.35
670/2-73-092	1BB040	**Abatement of Mine Drainage Pollution By Underground Precipitation** BY C. K. Stoddard, Ralph M. Parsons Company Los Angeles, CA **ORDER FROM: GPO-**EP1.23/2;670/2-73-092 $1.55 **NTIS-PB** 229 407/AS
670/2-73-093	1BB040	**Appraisal of Neutralization Processes to Treat Coal Mine Drainage** BY H. L. Lovell, Pennsylvania State University University Park, PA **ORDER FROM: GPO-**EP1.23/2:670/2-73-093 $3.50 **NTIS-PB** 231 249/AS
670/2-73-094		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-095	1DB314	**Single-Cell Protein From Waste Cellulose** BY C. D. Callihan, and C. E. Dunlap, Louisiana State Unversity, Department of Chemical Engineering Baton Rouge, LA **ORDER FROM: NTIS-PB** 223 873/AS $3.75
670/2-73-096	1BB043	**BOD, Solids and Nutrient Removal By Foam Flotation** BY E. R. Becker, San Jose Public Works Department, City of San Jose, CA **ORDER FROM: NTIS-PB** 232 184/AS $4.75
670/2-73-097		**(No. Cancelled) ORDER FROM:** (No. Cancelled)

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-73-098	1BB033	**Odors Emitted From Raw and Digested Sewage Sludge** BY B. A. Rains, M. J. De Primo, and J. L. Groseclose, St. Louis Sewer District, Metropolitan St. Louis, MO **ORDER FROM: GPO-**EP1.23/2:670/2-73-098 $1.15 **NTIS-PB** 232 369/AS
670/2-73-099	1BB041	**Investigation of Surface Films – Chesapeake Bay Entrance** BY W. G. MacIntyre, C. L. Smith, and J. C. Munday, Virginia Institute of Marine Science Gloucester Point, VA **ORDER FROM: GPO-**EP1.23/2:670/2-73-099 $2.05 **NTIS-PB** 232 968/AS
670/2-73-100	1BB040	**Applications of Reverse Osmosis to Acid Mine Drainage Treatment** BY R. C. Wilmoth, Crown Mine Drainage Control Field Site, EPA Rivesville, WV **ORDER FROM: GPO-**EP1.23/2:670/2-73-100 $2.00 **NTIS-PB** 232 449/AS
670/2-73-101		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-102		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-73-103	1BB043	**Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus** BY O. Green, D. Van Dam, B. LaBeau, T. L. Campbell, and S. L. Daniels, Grand Rapids, City of Grand Rapids, MI **ORDER FROM: GPO-**EP1.23/2:670/2-73-103 $1.55 **NTIS-PB** 239 866/AS $5.25
670/2-73-104	1BB043	**Selected Abstracts for Instrumentation and Automation of Wastewater Facilities** BY A. E. Molvar, and J. F. Roesler, Raytheon Company, Environmental Systems Center Portsmouth, RI **ORDER FROM: NTIS-PB** 225 520/6AS $7.00
670/2-74-001	1BB040	**Carbonate Bonding of Taconite Tailings** BY P. J. La Rosa, K. A. Ricciardella, and R. J. McGarvey, Applied Technology Corporation Pittsburgh, PA **ORDER FROM: GPO-**EP1.23/2:670/2-74-001 $1.00 **NTIS-PB** 232 370/AS
670/2-74-002	1BB040	**Feasibility Study of a New Surface Mining Method "Longwall Stripping"** BY H. F. Moomau, F. R. Zachar, and J. W. Leonard, Potomac Engineering and Surveying Petersburg, WV **ORDER FROM: GPO-**EP1.23/2:670/2-74-002 $1.15 **NTIS-PB** 233 146/AS
670/2-74-003	1BB040	**Mine Drainage Pollution Control Demonstration Grant Procedures and Requirement — Abstracted 600/9-75-001a** —BY F. J. Zaval, and R. Burns, Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: NTIS-PB** 240 692/AS $5.25
670/2-74-004	1BB043	**Optimization and Design of an Oil/Activated Sludge Concentration Process** BY T. M. Rosenblatt, Esso Research and Engineering Company Linden, NJ **ORDER FROM: GPO-**EP1.23/2:670/2-74-004 $1.40 **NTIS-PB** 234 173
670/2-74-005	1BB043	**Fate and Effects of Trace Elements in Sewage Sludge When Applied to Agricultural Lands: A Literature Review Study** BY A. L. Page, California, University of Riverside, CA **ORDER FROM: NTIS-PB** 231 171/AS $4.50
670/2-74-006	1BB043	**Costs of Filter Pressing Domestic Sewage Sludges** BY W. F. McMichael, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 226 130/AS $3.75
670/2-74-007	1DB064	**Physical, Chemical and Microbiological Methods of Solid Waste Testing: Four Additional Procedures** BY N. S. Ulmer, Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 231 203/AS $3.75
670/2-74-008	1BB036	**Metallic Recovery From Waste Waters Utilizing Cementation** BY O. P. Case, Anaconda American Brass Company Waterbury, CT **ORDER FROM: GPO-**EP1.23/2:670/2-74-008 $.85
670/2-74-009	1BB040	**Analysis of Pollution Control Costs** BY F. J. Doyle, G. Bhatt, and J. R. Rapp, Michael Baker Jr., Inc. Beaver, PA **ORDER FROM: GPO-**EP1.23/2:670/2-74-009 $3.20 **NTIS-PB** 233 026 $10.50
670/2-74-010	1BB043	**Costs of Hauling and Land Spreading of Domestic Sewage Treatment Plant Sludge** BY W. F. McMichael, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 227 005/AS $4.25
670/2-74-011	1BB043	**Cost of Dissolved Air Flotation Thickening of Waste Activated Sludge at Municipal Sewage Treatment Plants** BY W. F. McMichael, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 226 582/AS $2.75
670/2-74-012	1BB043	**Adsorption from Aqueous Solution** BY W. J. Weber Jr., and P. J. Usinowicz, Michigan, University of, College of Engineering Ann Arbor, MI **ORDER FROM: NTIS-PB** 232 453/AS $15.00

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-74-013	1BB041	**State of Maryland Waste Oil Recovery and Reuse Program** BY E. J. Martin, and G. D. Gumtz, Environmental Quality Systems, Inc. Rockville, MD **ORDER FROM: GPO-**EP1.23/2:670/2-74-013 $2.70 **NTIS-PB** 234 446 $6.00
670/2-74-014	1DB314	**Scrap Rubber Tire Utilization in Road Dressings** BY B. G. Brand, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 232 559/AS $3.75
670/2-74-015	1DB314	**Chemical Conversion of Wood and Cellulosic Wastes** BY F. Shafizadeh, and C. McIntyre, Montana, University of, Wood Chemistry Laboratory Missoula, MT **ORDER FROM: NTIS-PB** 229 246 $6.00
670/2-74-016	1DB314	**Reclamation of Energy from Organic Waste** BY J. T. Pfeffer, Illinois, University of, Department of Civil Engineering Urbana, IL **ORDER FROM: NTIS-PB** 231 176/AS $4.75
670/2-74-017	1BB043	**Evaluation and Demonstration of the Capillary Suction Sludge Dewatering Device** BY T. E. Lippert, and M. C. Skriba, Westinghouse Electric Corporation, Research and Development Center Pittsburgh, PA **ORDER FROM: NTIS-PB** 232 358/AS $4.00
670/2-74-018	1BB043	**Bacterial Zoogloea Formation** BY R. F. Ung, and S. R. Farrah, Pennsylvania State University University Park, PA **ORDER FROM: NTIS-PB** 235 023 $4.00
670/2-74-019	1DB063	**Feasibility of Hydraulic Transport and Treatment of Ground HouseholJ Refuse Through Sewers** BY A. R. Guzdar, and S. S. Rhee, Foster-Miller Associates, Inc. Waltham, MA **ORDER FROM: NTIS-PB** 229 256/AS $14.25
670/2-74-020	1DB063	**Preliminary Design of a Household Refuse Grinder** BY A. T. Fisk, and A. R. Guzdar, Foster-Miller Associates, Inc. Waltham, MA **ORDER FROM: NTIS-PB** 239 914 $5.75
670/2-74-021	1DB063	**Feasibility of Hydraulic Transport of Ground Household Refuse Through Sewer Appurtenances** BY D. A. Monaghan, and A. R. Guzdar, Foster-Miller Associates, Inc. Waltham, MA **ORDER FROM: NTIS-PB** 239 915 $5.75
670/2-74-022	1BB034	**Computer Management of a Combined Sewer System** Seattle, Municipality of Metropolitan Seattle, WA **ORDER FROM: GPO-**EP1.23/2:670/2-74-022 $5.30 **NTIS-PB** 235 717/AS $8.30
670/2-74-023	1BB040	**Electrochemical Removal of Heavy Metals from Acid Mine Drainage** BY N. B. Franco, and R. A. Balouskus, Ecotrol, Inc. Columbia, MD **ORDER FROM: NTIS-PB** 232 764/AS $4.00
670/2-74-024A	1DB314	**Raw Materials Transportation Costs and Their Influence on the Use of Wastepaper and Scrap Iron and Steel, Volume I – Technical Discussion** BY J. F. Foran, A. T. Heenan, and R. G. Schweikhardt, Resource Planning Institute Cambridge, MA **ORDER FROM: NTIS-PB** 229 816/AS $5.75
670/2-74-024B	1DB314	**Raw Materials Transportation Costs and Their Influence on the Use of Wastepaper and Scrap Iron and Steel, Volume II – Appendices** BY J. F. Foran, A. T. Heenan, and R. G. Schweikhardt, Resource Planning Institute Cambridge, MA **ORDER FROM: NTIS-PB** 229 817/AS $4.00
670/2-74-025	1BB043	**Effect of Carbon to Nitrogen Ratio on Activated Sludge Subsidence and Dewatering Characteristics — Abstracted 600/9-75-001b** --BY A. Geinopolos, Envirex, Inc. Milwaukee, WI **ORDER FROM: NTIS-PB** 230 941 $5.75
670/2-74-026	1BB034	**SWIRL Concentrator as a Grit Separator Device** BY R. H. Sullivan, and M. M. Cohn, American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 233 964/AS $4.50
670/2-74-027	1DB314	**Chemical Conversion of Solid Waste to Useful Products** BY J. F. Barbour, R. R. Groner, and V. H. Freed, Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 233 178/AS $5.50
670/2-74-028		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-74-029		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-74-030	1BB036	**Waterborne Wastes of the Paint and Inorganic Pigments Industries** BY J. J. Barrett, G. A. Mornea, and J. J. Roden III, Southern Research Institute Birmingham, AL **ORDER FROM: NTIS-PB** 232 019/AS $4.00
670/2-74-031	1DB314	**Infrared Spectral Sensor for Refuse Sorting** BY P. F. Winkler, Middlebury College, Physics Department Middlebury, VT **ORDER FROM: NTIS-PB** 229 901/AS $7.25
670/2-74-032	1BB043	**Role of Polyelectrolytes in Filtration Processes** BY C. R. O'Melia, North Carolina, University of Chapel Hill, NC **ORDER FROM:** NERC-Cincinnati, OH 45268

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–74–033	1BB034	**Manual for Deicing Chemical Storage and Handling** BY D. L. Richardson, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS–PB** 236 152/AS $3.70
670/2–74–034	1BB043	**Off-the-Shelf Analyzers for Measuring Adenosine Triphosphate (ATP) in Activated Sludge** BY R. H. Wise, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 231 345/AS $3.00
670/2–74–035a	1DB314	**First Annual Report: Routing of Solid Waste Collection Vehicles and Appendix A – A Linear Programming Approach for the Traveling Salesman Problem — Abstracted 600/9–75–001a** —BY M. Wathne, Illinois, University of Urbana, IL **ORDER FROM: NTIS–PB** 239 896/AS $4.25
670/2–74–035b	1DB314	**First Annual Report: Routing of Solid Waste Collection Vehicles and Appendix B – Optimal Routing of Solid Waste Collection Vehicles — Abstracted 600/9–75–001a** —BY S. Hong, Illinois, University of Urbana, IL **ORDER FROM: NTIS–PB** 239 897/AS $5.25
670/2–74–036a	1DB314	**Routing of Solid Waste Collection Vehicles, Final Report: Appendix A – Manual for Use of the Computer Codes — Abstracted 600/9–75–001a** —BY J. C. Liebman, Illinois, University of Urbana, IL **ORDER FROM: NTIS–PB** 239 898/AS $4.25
670/2–74–036b	1DB314	**Routing of Solid Waste Collection Vehicles: Appendix B – A Heuristic Solution to the M-Postmen's Problem — Abstracted 600/9–75–001a** —BY J. W. Male, Illinois, University of Urbana, IL **ORDER FROM: NTIS–PB** 239 899/AS $5.75
670/2–74–037	1DB064	**Economic Analysis of the Processing and Disposal of Refuse Sludges** BY P. Kos, P. M. Keier, and J. M. Joyce, Curran Associates, Inc. Northampton, MA **ORDER FROM: NTIS–PB** 234 498/AS $4.00
670/2–74–038	1DB064	**Wet Systems for Residential Refuse Collection: A Case Study for Springfield, Massachusetts** BY P. M. Meier, J. Kuhner, and R. E. Bolton, Curran Associates, Inc. Northampton, MA **ORDER FROM: NTIS–PB** 234 499/AS $5.75
670/2–74–039	1BB034	**Relationship Between Diameter and Height for the Design of a Swirl Concentrator as a Combined Sewer Overflow Regulator** BY R. H. Sullivan, and M. M. Cohn, American Public Works Association Chicago, IL **ORDER FROM: GPO-**EP1.23/2:670/2–74–039 $1.00 **NTIS–PB** 234 646/AS
670/2–74–040	1BB034	**Urban Stormwater Management and Technology: An Assessment** BY J. A. Lager, and W. G. Smith, Metcalf and Eddy, Inc. Palo Alto, CA **ORDER FROM: NTIS–PB** 240 687/AS $11.50
670/2–74–041		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–042	1BB036	**Waste Water Treatment and Reuse in a Metal Finishing Job Shop** S.K. Williams Company Wauwatosa, WI **ORDER FROM: NTIS–PB** 234 476/AS $3.75
670/2–74–043	1BB038	**Development and Evaluation Report: Physical Chemical Marine Sanitation System** BY J. M. Heeney, R. B. Neveril, E. K. Kurg, and G. A. Remus, General American Transportation Corporation Niles, IL **ORDER FROM: NTIS–PB** 231 846/AS $7.00
670/2–74–044	1BB036	**Ion Exchange Process for Recovery of Chromate from Pigment Manufacturing** BY D. Robinson, H. Weisberg, G. Chase, K. Libby Jr., and J. Capper, Mineral Pigments, Corporation Beltsville, MD **ORDER FROM: NTIS–PB** 233 641/AS $4.50
670/2–74–045	1BB034	**Manual for Deicer Chemical Application Practices** BY D. L. Richardson, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS–PB** 239 694/AS $6.25
670/2–74–046	1BB043	**On-Line Colorimetric Analyzers for Monitoring Nitrate-Nitrite, Ammonia, Orthophosphorus and Total Hydrolyzable Phosphorus in Wastewater-Treatment Process Streams** BY R. H. Wise, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 231 990/AS $4.50
670/2–74–047	1BB043	**Activated Silica in Wastewater Coagulation** BY W. J. Weber Jr., and L. A. Ketchum, Michigan, University of, Environmental and Water Resources Engineering Ann Arbor, MI **ORDER FROM: NTIS–PB** 232 454/AS $6.25
670/2–74–048	1BB043	**Oxygenation of Aqueous Bodies Using Liquid Oxygen-Loxination** BY T. D. Bass, W. Garner, and A. E. Vandergrift, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS–PB** 232 455/AS $3.75
670/2–74–049	1BB034	**Microstraining and Disinfection of Combined Sewer Overflows – Phase III** BY M. Maher, Philadelphia Water Department Philadelphia, PA **ORDER FROM: GPO-**EP1.23/2:670/2–74–049 $1.95 **NTIS–PB** 235 771/AS

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–74–050	1BB034	**Combined Sewer Overflow Treatment by the Rotating Biological Contactor Process** BY F. L. Welsh, and D. J. Stucky, Autotrol Corporation Milwaukee, WI **ORDER FROM: NTIS–PB** 231 892/AS $5.75
670/2–74–051	1BB040	**Limestone and Limestone-Lime Neutralization of Acid Mine Drainage** BY R. C. Wilmoth, Industrial Waste Treatment Research Laboratory, EPA Rivesville, WV **ORDER FROM: GPO-**EP1.23/2:670/2–74–051 $1.40 **NTIS-PB** 234 607/AS
670/2–74–052	1BB041	**Waste Oil Recycling and Disposal** BY M. J. Weinstein, Recon Systems, Inc. Princeton, NJ **ORDER FROM: GPO-**EP1.23/2:670/2–74–052 $4.00 **NTIS–PB** 235 357/AS $6.50
670/2–74–053	1BB038	**Combustion Toilet for Use on Small Boats** BY T. S. McMahon, Ocean Systems, Inc. Reston, VA **ORDER FROM: NTIS–PB** 233 175/AS $9.00
670/2–74–054	1BB038	**Sources of Oil and Water in Bilges of Great Lakes Ships** BY J. B. Woodward, Michigan, University of, Department of Naval Architecture and Marine Engineering Ann Arbor, MI **ORDER FROM: NTIS–PB** 233 846/AS $3.25
670/2–74–055		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–056	1BB038	**Development of On-Shore Treatent System for Sewage from Watercraft Retention System** BY J. H. Robbins, and A. C. Green, FMC Corporation, Advanced Products Division San Jose, CA **ORDER FROM: NTIS–PB** 234 645/AS
670/2–74–057	1BB036	**Characterization of Waste Waters from the Ethical Pharmaceutical Industry** BY J. Mayes, Gulf Southern Research Institute for Pharmaceutical Associates Washington, DC **ORDER FROM:** Pending
670/2–74–058		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–059	1BB036	**Laboratory Study of Continous Electro-oxidation of Dilute Cuanide Waste** BY J. J. Byerley, and K. Enns, Waterloo, University of, Department of Chemical Engineering Waterloo, Ontario, Canada **ORDER FROM: NTIS–PB** 235 588/AS $3.25
670/2–74–060		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–061	1BB043	**Phosphate Removal in an Activated Sludge Facility** BY R. E. Finger, G. J. Mason, D. A. Carlson, and G. L. Minton, Seattle, Municipality of Metropolitan Seattle, WA **ORDER FROM: NTIS–PB** 235 749/AS $4.50
670/2–74–062	1BB043	**Cost-Effective Design Based Upon Field Derived Parameters** St. Louis Sewer District, Metropolitan St. Louis, MO **ORDER FROM: NTIS–PB** 234 356/AS $4.50
670/2–74–063	1BB038	**Effects of Exhaust from Two-Cycled Outboard Engines** BY W. W. Shuster, N. L. Clesceri, S. Kobayashi, and W. Perrotte, Rensselaer Polytechnic Institute Troy, NY **ORDER FROM: NTIS–PB** 233 567/AS $7.25
670/2–74–064		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–065	1DB064	**Preliminary Assessment of Wet Systems for Residential Refuse Collection** BY P. M. Meier, J. Kuhner, and C. J. Martel, Curran Associates, Inc. Northampton, MA **ORDER FROM: NTIS–PB** 234 496/AS $5.50
670/2–74–066	1DB064	**Modifications to the Executive Computer Program for Steady-State Simulation of Wastewater Treatment Facilities** BY P. M. Meier, and G. R. Fisette, Curran Associates, Inc. Northampton, MA **ORDER FROM: NTIS–PB** 234 497/AS $3.75
670/2–74–067	1CB047	**Mathematical Analysis of the Kinetics of Viral Inactivation** BY R. M. Clark, B. L. Grupenhoff, and G. C. Kent, Water Supply Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 235 124 $3.25
670/2–74-068	1DB064	**Assessment of Wet Systems for Residential Refuse Collection: A Summary Report** BY P. M. Meier, J. Kuhner, and R. E. Bolton, Curran Associates, Inc. Northampton, MA **ORDER FROM: NTIS–PB** 236 085 $4.50
670/2–74–069	1BB043	**Control Schemes for the Activated-Sludge Process** BY R. Smith, and R. G. Eilers, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 236 086 $3.75
670/2–74–070	1BB040	**Mine Spoil Potentials for Soil and Water Quality** BY R. M. Smith, W. E. Grube Jr, T. Arkle Jr, and A. Sobek, West Virginia University Morgantown, WV **ORDER FROM: NTIS–PB** 237 525/AS $6.25
670/2–74–071	1BB033	**Demonstration of Waste Flow Reduction from Households** BY S. Cohen, and H. Wallman, General Dynamics Corporation Groton, CT **ORDER FROM: NTIS–PB** 236 904/AS $5.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–74–072	1BB038	**Assessing Effects on Water Quality by Boating Activity** BY Y. A. Yousef, Florida Technological University Orlando, FL **ORDER FROM: NTIS-PB** 237 519/AS $3.30
670/2–74–073	1BB041	**Evaluation of MTF for Testing Hazardous Material Spill Control Equipment — Abstracted 600/9–75–001b** --BY C. R. Thomas, G. M. L. Robinson, and E. J. Martin, Hancock Company Bay St. Louis, MS **ORDER FROM: NTIS-PB** 240 762/AS $9.25
670/2–74–074	1BB043	**Microbiology of Sewage Sludge Disposal in Soil** BY R. H. Miller, Ohio Agricultural Research and Development Center Wooster, OH **ORDER FROM: NTIS-PB** 237 817/AS $5.75
670/2–74–075	1BB034	**Surge Facility for Wet and Dry Weather Flow Control** BY H. L. Welborn, Rohnert Park, City of Rohnert Park, CA **ORDER FROM: GPO-**EP1.23/2:670/2–74–075 $1.55 **NTIS-PB** 238 905/AS
670/2–74–076a	1DB064	**Experimental High Ash Papermill Sludge Landfill – First Annual Report — Abstracted 600/9–75–001a** —BY O. B. Andersland, R. P. Vallee, and T. A. Armstrong, Michigan State University East Lansing, MI **ORDER FROM: NTIS-PB** 239 869/AS $7.00
670/2–74–076b	1DB064	**Experimental High Ash Papermill Sludge Landfill – Second Annual Report — Abstracted 600/9–75–001a** — BY O. B. Andersland, R. P. Vallee, W. A. Charlie, and D. W. Marshall, Michigan State University East Lansing, MI **ORDER FROM: NTIS-PB** 239 618 $7.50
670/2–74–077	1BB043	**Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent** BY D. F. Boen, and G. L. Johannson, Eastern Municipal Water District Hemet, CA **ORDER FROM: NTIS-PB** 239 353/AS $7.50
670/2–74–078	1DB063	**Industrial Chemicals Solid Waste Generation — The Significance of Process Resource Recovery, and Improved Disposal** BY J. C. Saxton, and M. Kramer, International Research and Technology Corporation Arlington, VA **ORDER FROM: GPO-**EP1.23/2:670/2–74–078 $2.15 **NTIS-PB** 233 464 $6.25
670/2–74–079	1BB034	**Evaluation of Three Combined Sewage Overflow Treatment Alternatives — Abstracted 600/9–75–001a** — BY J. W. Parks, Shelbyville, City of Shelbyville, IL **ORDER FROM: NTIS-PB** 239 115/AS $5.25
670/2–74–080	1BB043	**Study of an Integrated Power, Water and Wastewater Utility Complex** New York State Atomic and Space Development Authority New York, NY **ORDER FROM: NTIS-PB** 239 408/AS $7.50
670/2–74–081		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–082	1DB063	**Measures of Effectiveness for Refuse Storage, Collection, and Transportation Practices** Messer Associates, Inc. Silver Spring, MD **ORDER FROM: NTIS-PB** 241 252/AS $7.00
670/2–74–083	1DB063	**Analysis of the Current Impact of Plastic Refuse Disposal Upon the Environment — Abstracted 600/9–75–001a** —BY D. A. Braughan, M. Y. Anastas, and H. H. Krause, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 238 654/AS $4.25
670/2–74–084	1DB063	**Study of Corrosion in Municipal Incinerators Versus Refuse Composition — Abstracted 600/9–75–001a** — BY D. A. Braughan, H. H. Krause, and W. W. Boyd, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 238 747/AS $4.25
670/2–74–085		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–086	1BB034	**Chemical Impact of Snow Dumping Practices — Abstracted 600/9–75–001b** —BY P. J. O'Brien, P. L. Levins, and C. H. Summers, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 238 764/AS $3.75
670/2–74–087	1BB034	**Assessment and Development Plan for Monitoring of Organics in Storm Flows — Abstracted 600/9–75–001a** —BY A. E. Molvar, and A. Tulumello, Raytheon Company Protsmouth, RI **ORDER FROM: NTIS-PB** 238 810/AS $4.75
670/2–74–088	1DB311	**Promising Technologies for Treating Hazardous Waste** BY C. J. Rogers, and R. E. Landreth, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 238 145 $3.75
670/2–74–089		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2–74–090	1BB034	**Countermeasures for Pollution From Overflow – The State of the Art — Abstracted 600/9–75–001a** —BY R. Field, and J. A. Lager, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB**240 498 $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-74-091	1BB038	**Devices for On – Board Treatment of Waste from Vessels — Abstracted 600/9-75-001a** —BY T. J. O'Grady, and T. D. Lakomski, Thiokol Corporation Brigham City, UT **ORDER FROM: NTIS-PB** 240 993/AS $5.75
670/2-74-092	1BB038	**Crankcase Drainage from In-Service Out-board Motors — Abstracted 600/9-75-001a** —BY C. P. Hare, and C. J. Pringer, Southwest Research Institute San Antonio, TX **ORDER FROM: NTIS-PB** 240 691/AS $5.75
670/2-74-093	1BB040	**Environmental Protection in Surface Mining of Coal** BY E. C. Grim, and R. D. Hill, Industrial Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: GPO-**EP1.23/2:670/2-74-093 $3.50 **NTIS-PB** 238 538 $3.50
670/2-74-094	1CB047	**Microbiological Production of Geosmin** BY N. N. Gerber, Rutgers University New Brunswick, NJ **ORDER FROM: GPO-**EP1.23/2:670/2-74-094 $0.65 **NTIS-PB** 238 781/AS
670/2-74-095a	1DB314	**Effects of Water Pollution Controls on Solid Waste Generation, 1971 to 1985: Executive Summary — Abstracted 600/9-75-001a** —BY R. Stone, Ralph Stone and Company, Inc. Los Angeles, CA **ORDER FROM: NTIS-PB** 240 739/AS $4.75
670/2-74-095b	1DB314	**Forecast of the Effects of Air and Water Controls of Solid Waste Generation — Abstracted 600/9-75-001a** —BY R. Stone, and D. Brows, Ralph Stone and Company, Inc. Los Angeles, CA **ORDER FROM: NTIS-PB** 238 819/AS $19.25
670/2-74-096	1BB034	**Characterization and Treatment of Urban Land Runoff — Abstracted 600/9-75-001a** —BY N. V. Colston, North Carolina, University of Raleigh, NC **ORDER FROM: NTIS-PB** 240 987/AS $6.25
670/2-74-097	1BB038	**Characterization of Vessel Waste in Duluth-Superior Harbor — Abstracted 600/9-75-001a** —BY G. D. Gumtz, D. M. Jordan, and R. Wailer, Environmental Quality Systems, Inc. Rockville, MD **ORDER FROM: NTIS-PB** 241 081/AS $4.25
670/2-75-001		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/2-75-002	1BB034	**Suspended Solids Monitor — Abstracted 600/9-75-001a** —BY J. W. Liskowitz, G. J. Francey, and J. Tarzynski, American Standards, Inc. New Brunswick, NJ **ORDER FROM: NTIS-PB** 241 581/AS $3.75
670/2-75-003	1BB041	**Oil Spill and Oil Pollution Reports — Abstracted 600/9-75-001a** —BY Jr., F. A DeWitt, and P. Melvin, California, University of Santa Barbara, CA **ORDER FROM: NTIS-PB** 240 719/AS $7.25
670/2-75-004	1BB041	**Feasibility of 5 gpm Dynactor/Flash Magnetic Separator System to Treat Spilled Hazardous Materials — Abstracted 600/9-75-001a** —BY R. G. Sanders, S. R. Rich, and T. G. Pantazelos, Industrial Bio-Test Laboratories, Inc. Northbrook, IL **ORDER FROM: NTIS-PB** 241 080/AS $3.75
670/2-75-005	1DB311	**Degradation Mechanism: Controlling the Bioaccumulation of Hazardous Materials — Abstracted 600/9-75-001a** —BY C. Rogers, and R. Landreth, Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 240 748/AS $3.25
670/2-75-006	1BB040	**Removal of Manganese From Mine Drainage by Ozone and Chlorine — Abstracted 600/9-75-001b** —BY R. Rozelle, and H. Swain, Wilkes College Wilkes Barre, PA **ORDER FROM: NTIS-PB** 241 143/AS $4.25
670/2-75-007	1BB038	**On-Shore Treatment Systems for Sewerage from Watercraft Retention Systems — Abstracted 600/9-75-001a** —BY A. J. Glueckert, and P. A. Saigh, General American Transportation Corporation Niles, IL **ORDER FROM: NTIS-PB** 239 630 $3.75
670/2-75-008	1BB043	**System Alternatives in Oxygen Activated Sludge — Abstracted 600/9-75-001a** —BY D. F. Bishop, S. M. Bennet, and A. B. Hais, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 310/AS $4.25
670/2-75-009	1BB033	**Water Renovation of Municipal Effluents by Reverse Osmosis — Abstracted 600/9-75-001a** —BY J. E. Cruver, J. E. Beckman, and E. Bevege, Gulf Environmental Systems Company San Diego, CA **ORDER FROM: NTIS-PB** 240 018/AS $5.75
670/2-75-010	1BB034	**Multi-Purpose Combined Sewer Overflow Treatment Facility, Mount Clemens, Michigan — Abstracted 600/9-75-001c** —BY V. U. Mahida, and F. J. DeDecker, Mount Clemens, City of Mount Clemens, MI **ORDER FROM: NTIS-PB** 242 914/AS $7.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2-75-011	1BB034	**Physical and Settling Characteristics of Particulates in Storm and Sanitary Wastewaters — Abstracted 600/9-75-001b** —BY R. J. Dalrymple, S. L. Hodd, and D. C. Morin, American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 242 001/AS $3.75
670/2-75-012	1BB043	**Lime Stabilized Sludge: Its Stability and Effect on Agricultural Land — Abstracted 600/9-75-001a** —BY C. A. Counts, and A. J. Shuckrow, Battelle Memorial Institute Richland, WA **ORDER FROM: NTIS-PB** 241 809/AS $4.75
670/2-75-013	1BB043	**Interim Report of Task Force on Phosphate Removal Sludges — Abstracted 600/9-75-001a** —BY J. B. Farrell, Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 238 317/AS $7.25
670/2-75-014	1DB063	**Feasibility Study of Use of Molten Salt Technology for Pyrolysis of Solid Waste** BY V. L. Hammond, and L. K. Mudge, Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 238 674/AS $4.75
670/2-75-015	1BB036	**Pilot Plant Optimization of Phosphoric Acid Recovery Process — Abstracted 600/9-75-001b** —BY L. E. Lancy, F. A. Steward, and J. H. West, Lancy Laboratories Zelienople, PA **ORDER FROM: NTIS-PB** 241 793/AS $3.75
670/2-75-016	1BB036	**Reclamation of Sulfuric Acid From Waste Streams — Abstracted 600/9-75-001b** —BY H. C. Peterson, and P. L. Kern, New Jersey Zinc Company Palmerton, PA **ORDER FROM: NTIS-PB** 241 791/AS $4.25
670/2-75-017	1BB034	**Storm Water Management Model: User's Manual - Version II — Abstracted 600/9-75-001a** —BY W. C. Huber, J. P. Heaney, M. A. Medina, W. A. Peltz, H. Sheikh, and G. F. Smith, Florida, University of Gainesville, FL **ORDER FROM:** NERC – Cincinnati, Ohio 45268
670/2-75-018	1BB036	**Reclamation of Metal Values from Metal-Finishing Waste Treatment Sludges — Abstracted 600/9-75-001b** —BY A. B. Tripler Jr., R. H. Cherry Jr., and Jr., G. R Smithson, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 242 018/AS $4.75
670/2-75-019	1BB034	**Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin — Abstracted 600/9-75-001b** --BY R. W. Agnew, C. A. Hansen, W. H. Richardson, M. J. Clark, and O. F. Nelson, Kenosha, City of Kenosha, WI **ORDER FROM: NTIS-PB** 242 126/AS $8.50
670/2-75-020	1BB034	**Sewerage System Monitoring and Remote Control — Abstracted 600/9-75-001b** —BY T. R. Watt, R. G. Skrentner, and A. C. Davanzo, Detroit Metro Water Department Detroit, MI **ORDER FROM: NTIS-PB** 242 107/AS $7.00
670/2-75-021	1BB034	**Bench-Scale High-Rate Disinfection of Combined Sewer Overflows With Chlorine and Chlorine Dioxide — Abstracted 600/9-75-001b** —BY P. E. Moffa, Jr., E. C Tifft, S. L. Richardson, and J. E. Smith, Syracuse University Syracuse, NY **ORDER FROM: NTIS-PB** 242 296/AS $7.00
670/2-75-022	1BB034	**Urban Stormwater Management Modeling and Decision-Making — Abstracted 600/9-75-001b** —BY J. P. Heaney, W. C. Huber, H. Sheikh, M. A. Medina, J. R. Doyle, W. A. Peltz, and J. E. Darling, Florida, University of Gainesville, FL **ORDER FROM: NTIS-PB** 242 290/AS $7.00
670/2-75-023	1DB064	**Evaluation of Health Hazards Associated With Solid Waste Sewage Sludge Mixtures — Abstracted 600/9-75-001b** —BY W. L. Goby, East Tennessee State University Johnson City, TN **ORDER FROM: NTIS-PB** 241 810/AS $4.25
670/2-75-024	1DB064	**Industrial Solid Waste Classification Systems — Abstracted 600/9-75-001a** —BY J. B. Berkowitz, F. March, and R. Horne, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 239 119/AS $10.50
670/2-75-025	1DB063	**High-Temperature Vortex Incinerator — Abstracted 600/9-75-001a** —BY R. C. Thurnau, and D. A. Oberacker, Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 240 723/AS $3.75
670/2-75-026a	1DB314	**Analysis Models for Solid Waste Collection — Abstracted 600/9-75-001a** —BY J. F. Hudson, D. S. Grossman, and D. H. Marks, Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: NTIS-PB** 239 117/AS $7.50
670/2-75-026b	1DB314	**Analysis Models for Solid Waste Collection — Abstracted 600/9-75-001a** —BY J. F. Hudson, D. S. Grossman, and D. H. Marks, Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: NTIS-PB** 239 494/AS $7.25
670/2-75-027	1BB043	**Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent; Appendix A-2 and Appendix A-6 -- Abstracted 600/9-75-001a** —BY D. F. Boen, and G. L. Johannsen, Eastern Municipal Water District Hemet, CA **ORDER FROM: NTIS-PB** 239 354/AS $3.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–75–028	1BB043	**Electrochemical Carbon Regeneration** BY P. H. Owen, and J. P. Barry, Environics, Inc. Huntington Beach, CA **ORDER FROM: NTIS-PB** 239 156/AS $3.75
670/2–75–029	1BB036	**Copper Recovery from Brass Mill Discharge by Cementation with Scrap Iron — Abstracted 600/9–75–001a** —BY P. O. Case, Anaconda Company Waterbury, CT **ORDER FROM: NTIS-PB** 241 822/AS $4.25
670/2–75–030	1DB064	**Urban Street Cleaning — Abstracted 600/9–75–001a** —BY A. H. Levis, Polytechnic Institute of Brooklyn Brooklyn, NY **ORDER FROM: NTIS-PB** 239 327/AS $6.25
670/2–75–031	1DB314	**Solid Waste Conversion: Cellulose Liquefaction — Abstracted 600/9–75–001a** —BY J. A. Kaufman, and A. H. Weiss, Worcester Polytechnic Institute Worcester, MA **ORDER FROM: NTIS-PB** 239 509/AS $7.25
670/2–75–032	1DB314	**Fabrication of Single Cell Protein From Cellulosic Wastes — Abstracted 600/9–75–001a** —BY W. H. Daly, and Jr., L. P Ruiz, Louisiana State University Baton Rouge, LA **ORDER FROM: NTIS-PB** 239 502/AS $4.25
670/2–75–033a	1DB064	**Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. I – Summary — Abstracted 600/9–75–001b** —BY N. L. Hecht, and D. S. Duvall, Dayton Research Institute, University of Dayton, OH **ORDER FROM: NTIS-PB** 244 310/AS $3.75
670/2–75–033b	1DB064	**Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. II – Municipal Sludges — Abstracted 600/9–75–001b** —BY N. L. Hecht, and D. S. Duvall, Dayton Research Institute, University of Dayton, OH **ORDER FROM: NTIS-PB** 244 311/AS $7.50
670/2–75–033c	1DB064	**Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. III – Utility Coal Ash — Abstracted 600/9–75–001b** —BY N. L. Hecht, and D. S. Duvall, Dayton Research Institute, University of Dayton, OH **ORDER FROM: NTIS-PB** 244 312/AS $4.25
670/2–75–033d	1DB064	**Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. IV – Municipal Incinerator Residues — Abstracted 600/9–75–001b** —BY N. L. Hecht, and D. S. Duvall, Dayton Research Institute, University of Dayton, OH **ORDER FROM: NTIS-PB** 244 313/AS $4.25
670/2–75–034	1DB314	**Specifications for Materials Recovered from Municipal Refuse — Abstracted 600/9–75–001b** —BY H. Alter, and W. R. Reeves, National Center for Resource Recovery, Inc. Washington, DC **ORDER FROM: NTIS-PB** 242 540/AS $5.25
670/2–75–035	1BB034	**Stream Pollution Abatement by Supplement Pumping — Abstracted 600/9–75–001a** —BY C. W. Reh, and W. W. Sadler, Richmond, City of Richmond, VA **ORDER FROM: NTIS-PB** 239 566/AS $5.25
670/2–75–036	1CB047	**Survey of Corrosion Products in the Seattle Water Department Tolt Distribution — Abstracted 600/9–75–001b** —BY R. A. Dangel, Water Supply Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 242 534/AS $3.75
670/2–75–037	1BB043	**Demonstration of a High-Rate Activated Sludge System — Abstracted 600/9–75–001b** —BY C. H. Huang, and D. L. Feuerstein, Engineering Science, Inc. Berkeley, CA BY E. L. Miller, City of Chino Chino, CA **ORDER FROM: NTIS-PB** 240 005/AS $6.25
670/2–75–038	1BB043	**Demonstrated Technology and Research Needs for Reuse of Municipal Wastewater — Abstracted 600/9–75–001b** —BY C. J. Schmidt, and E. V. Clements III, SCS Engineers Long Beach, CA **ORDER FROM:** Pending
670/2–75–039	1BB043	**Advanced Automatic Control Strategies for the Activated Sludge Treatment Process — Abstracted 600/9–75–001b** —BY J. F. Petersack, and R. G. Smith, Systems Control, Inc. Palo Alto, CA **ORDER FROM: NTIS-PB** 246 726/AS $7.50
670/2–75–040	1DB314	**Design and Performance Considerations for a Pilot Process for Separating Mixed Municipal Refuse — Abstracted 600/9–75–001c** —BY D. G. Wilson, and S. D. Senturia, Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: NTIS-PB** 242 136/AS $4.75
670/2–75–041	1BB034	**Storm Water Management Model: Dissemination and User Assistance — Abstracted 600/9–75–001b** —BY J. A. Hagarman, and F. R. Dressler, University City Science Center Philadelphia, PA **ORDER FROM: NTIS-PB** 242 544/AS $4.25
670/2–75–042	1BB041	**Methods to Treat, Control and Monitor Spilled Hazardous Materials — Abstracted 600/9–75–001c** —BY R. J. Pilie, R. E. Baier, R. C. Ziegler, R. P. Leonard, J. G. Michalovic, S. L. Pek, and D. H. Bock, Calspan Corporation Buffalo, NY **ORDER FROM: NTIS-PB** 243 386/AS $5.75

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–75–043	1BB036	**Disposal and Utilization of Waste Kiln Dust From Cement Industry — Abstracted 600/9–75–001b** —BY T. A. Davis, and D. B. Hooks, Southern Research Institute Birmingham, AL **ORDER FROM: NTIS–PB** 242 825/AS $4.25
670/2–75–044	1BB041	**Oil Spill and Oil Pollution Reports – November 1974 – February 1975 — Abstracted 600/9–75–001b** —BY F. A. DeWitt Jr., and P. Melvin, California, University of Santa Barbara, CA **ORDER FROM: NTIS–PB** 242 542/AS $8.50
670/2–75–045	1BB043	**Replacement of Activated Sludge Secondary Clarifiers by Dynamic Straining — Abstracted 600/9–75–001c** —BY M. Joyce, W. Schultz, and A. Strom, FMC Corporation Itasca, IL **ORDER FROM: NTIS–PB** 242 828/AS $4.75
670/2–75–046	1BB034	**Rainfall-Runoff Relations on Urban and Rural Areas — Abstracted 600/9–75–001c** —BY E. F. Brater, and J. D. Sherrill, Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS–PB** 242 830/AS $5.25
670/2–75–047	1BB040	**Up-Dip Versus Down-Dip Mining: An Evaluation — Abstracted 600/9–75–001c** —BY J. W. Mentz, and J. B. Warg, Skelly & Log, Engineers Harrisburg, PA **ORDER FROM: NTIS–PB** 244 420/AS $4.75
670/2–75–048	1BB040	**Water Quality Control in Mine Spoils — Upper Colorado River Basin — Abstracted 600/9–75–001c** —BY D. B. McWhorter, R. K. Skogerboe, and G. V. Skogerboe, Colorado State University Fort Collins, CO **ORDER FROM: NTIS–PB** 242 908/AS $5.25
670/2–75–049	1BB043	**Review of Landspreading of Liquid Municipal Sewage Sludge — Abstracted 600/9–75–001c** —BY T. E. Carroll, D. L. Maase, J. M. Genco, and C. N. Ifeadi, Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS–PB** 245 271/AS $5.25
670/2–75–050a	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Summary Report — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM: NTIS–PB** 245 555/AS $5.25
670/2–75–050b	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix A. Weather and Lake Level Data, Water Quality Data, and Raw Water Pumping Schedule — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM: NTIS–PB** 245 556/AS $4.25
670/2–75–050c	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix B. Design, Installation and Operation of Pilot Filters. Appendix C. Summary of Data for Individual Filter Runs — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM: NTIS–PB** 245 557/AS $4.25
670/2–75–050d	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix D. Head Loss and Turbidity Curves for Individual Filter Runs — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM: NTIS–PB** 245 558/AS $7.50
670/2–75–050e	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix E. Ontario Research Foundation Electron Microscope Analysis Results. Appendix F. EPA National Water Quality Laboratory X-Ray Diffraction Analysis Results. Appendix G. University of Minnesota at Duluth Electron Microscope Analysis Results — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM:** Pending
670/2–75–050f	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix H. Comparison of Turbidimeters — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM:** Pending
670/2–75–050g	1CB047	**Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix I. Diatomite Filters for Asbestiform Fiber Removal from Water — Abstracted 600/9–75–001c** —Black & Veatch Consulting Engineers Kansas City, MO **ORDER FROM: NTIS–PB** 244 080/AS $4.75
670/2–75–051	1BB043	**Single-Stage Nitrification-Denitrification — Abstracted 600/9–75–001c** —BY D. F. Bishop, J. A. Heidman, and J. B. Stamberg, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 242 857/AS $3.75
670/2–75–052	1BB043	**Carbon, Nitrogen, and Phosphorus Removal in Staged NitrificationDenitrification Treatment — Abstracted 600/9–75–001c** —BY J. A. Heidman, D. F. Bishop, and J. B. Stamberg, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS–PB** 242 970/AS $3.75
670/2–75–053	1DB064	**Use of Domestic Waste Glass for Urban Paving – Summary Report — Abstracted 600/9–75–001b** —BY W. R. Malisch, D. E. Day, and B. G. Wixon, Missouri, University of Rolla, MO **ORDER FROM: NTIS–PB** 242 536/AS $4.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/2–75–054	1BB034	**Characterization and Treatment of Combined Sewer Overflows — Abstracted 600/9–75–001b** —San Francisco, City of San Francisco, CA **ORDER FROM: NTIS-PB** 241 299/AS $7.25
670/2–75–055	1BB036	**Removal of Chromium from Plating Rinse Water Using Activated Carbon — Abstracted 600/9–75–001c** — BY R. B. Landrigan, and J. B. Hallowell, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 243 370/AS $4.25
670/2–75–056	1BB041	**Preliminary Design of a Comprehensive Waste Oil Processing Facility — Abstracted 600/9–75–001c** —BY G. D. Gumtz, and E. J. Martin, Environmental Quality Systems, Inc. Rockville, MD **ORDER FROM: NTIS-PB** 242 461/AS $5.75
670/2–75–057	1BB041	**Guidelines for the Disposal of Small Quantities of Unused Pesticide — Abstracted 600/9–75–001c** —BY E. W. Lawless, T. L. Ferguson, and A. F. Meiners, Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 244 557/AS $9.50
670/2–75–058	1DB314	**Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste — Abstracted 600/9–75–001c** —BY D. A. Vaughan, C. Ifeadi, R. A. Markle, and H. H. Krause, Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 243 366/AS $4.75
670/2–75–059	1BB041	**Oil Spill and Oil Pollution Reports, February 1975 – April 1975 — Abstracted 600/9–75–001c** —BY F. A. DeWitt Jr., and P. Melvin, California, University of Santa Barbara, CA **ORDER FROM: NTIS-PB** 243 724/AS $7.50
670/2–75–060	1BB043	**Controlling Sulfides in Sanitary Sewers Using Air and Oxygen — Abstracted 600/9–75–001c** —BY R. J. Sewell, Port Arthur, City of Port Arthur, TX **ORDER FROM: NTIS-PB** 243 894/AS $5.25
670/2–75–061	1BB038	**Analysis of Emissions from Outboard Two Cycle Marine Engines — Abstracted 600/9–75–001c** —BY W. J. Weber Jr., D. E. Cole, and J. C. Posner, Michigan, University of Ann Arbor, MI **ORDER FROM: NTIS-PB** 242 174/AS $8.50
670/2–75–062	1BB038	**Analysis of Pollution from Marine Engines and Effects on the Environment — Abstracted 600/9–75–001c** — Environmental Control Technology Corporation Ann Arbor, MI **ORDER FROM: NTIS-PB** 242 175/AS $9.50
670/2–75–063	1BB038	**Analysis of Pollution from Marine Engines and Effects on the Environment – Southern Lakes — Abstracted 600/9–75–001c** —BY H. L. Davis, and K. D. Wilson, Environmental Science and Engineering, Inc. Gainesville, FL **ORDER FROM: NTIS-PB** 242 176/AS $7.50
670/2–75–064	1BB038	**Analysis of Pollution from Marine Engines and Effects on the Environment – Summary Report — Abstracted 600/9–75–001c** —Boating Industry Association Chicago, IL **ORDER FROM: NTIS-PB** 242 177/AS $4.25
670/2–75–065	1BB034	**Short Course Proceedings: Applications of Stormwater Management Models — Abstracted 600/9–75–001c** —BY F. A. DiGiano, and P. A. Mangarella, Massachusetts, University of Amherst, MA **ORDER FROM: NTIS-PB** 247 163/AS $11.75
670/2–75–066	1BB041	**Surface Effects Skimmer Development — Abstracted 600/9–75–001c** —BY N. P. Trentacoste, Science Applications, Inc. McLean, VA **ORDER FROM: NTIS-PB** 242 391/AS $4.75
670/2–75–067	1BB034	**Automatic Organic Monitoring System for Storm and Combined Sewers — Abstracted 600/9–75–001c** —BY A. Tulumello, Raytheon Company Portsmouth, RI **ORDER FROM: NTIS-PB** 244 142/AS $4.75
670/2–75–068	1BB041	**Recycling of Waste Oils — Abstracted 600/9–75–001c** —BY S. Maizus, National Oil Recovery Corporation Bayonne, NJ **ORDER FROM: NTIS-PB** 243 222/AS $8.75
670/4–73–001	1BA027	**Biological Field and Laboratory Methods for Measuring the Quality of Surface Waters and Effluents** BY C. I. Weber, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 227 183 $12.50
670/4–73–002	1BA027	**Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection** BY F. A. Schmer, D. W. Ryland, and F. A. Waltz, South Dakota State University Brookinger, SD **ORDER FROM:** Pending
670/4–73–003		**670/4–73–003 thru 670/4–73–017 are Unassigned and will remain Unassigned ORDER FROM:** (Unassigned)
670/4–73–018	1HA327	**Performance of the Union Carbide Dissolved Oxygen Sensor** BY R. J. O'Herron, National Environmental Research Center, Analytical Quality Control Laboratory Cincinnati, OH **ORDER FROM: NTIS-PB** 239 162/AS $3.25
670/4–73–019		**670/4–73–019 thru 670/4–73–025 are Unassigned and will remain Unassigned ORDER FROM:** (Unassigned)

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/4-73-026		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
670/4-74-001	1HA327	**Literature Survey of Instrumental Measurements of Biochemical Oxygen Demand for Control Application, 1960-1963** BY R. J. O'Herron, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 232 765/AS $3.25
670/4-74-002	1BA027	**Simultaneous and Automated Determination of Total Phosphorous and Total Kjeldahl** BY M. E. Gales, and R. L. Booth, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 232 710/AS $3.25
670/4-74-003a	1BA027	**Analytical Methodology Information Center: Activities for 1973 – 1974** BY R. L. Little, and R. L. Dearby, Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Garrett, L. 202-426-2355
670/4-74-003b	1BA027	**Reviews of Current Literature on Analytical Methodology and Quality Control – Activities for 1973 through 1974** Battelle Columbus Laboratories Columbus, OH **ORDER FROM:** Garrett, L. 202-426-2355
670/4-74-004	1BA027	**Estimation of Polychlorinated Biphenyls in the Presence of Dot-Type Compounds** Baird-Atomic, Inc. Bedford, MA **ORDER FROM: NTIS-PB** 233 599/AS $4.75
670/4-74-005	1BA027	**Environmental Requirements and Pollution Tolerance of Freshwater Diatoms** BY R. L. Lowe, Bowling Green State University Bowling Green, OH **ORDER FROM: NTIS-PB** 239 490/AS $9.50
670/4-74-006	1BA027	**Taxonomy and Ecology of Stenonema Mayflies (Heptageniidae: Ephemeroptera) — Abstracted 600/9-75-001a** --BY P. A. Lewis, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 235/AS $4.75
670/4-74-007	1HA327	**Evaluation of the Ryan's Waterproof Thermograph (Model F-30)** BY R. P. Lauch, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 237 561/AS $3.25
670/4-74-008	1BA027	**Occurrence of Organohalides in Chlorinated Drinking Waters** BY T. A. Bellar, J. J. Lichtenberg, and R. C. Kroner, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: GPO-**EP1.23/5:670/4-74-008 $0.65
670/4-74-009	1BA027	**Determination of Volatile Organic Compounds at the UG/1 Level in Water by Gas Chromatography** BY T. A. Bellar, and J. J. Lichtenberg, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: GPO-**EP1.23/5:670/4-74-009 $0.80 **NTIS-PB** 237 973/AS
670/4-75-001	1HA327	**Performance of the OSCO Model 1391 Water Wastewater Sampler — Abstracted 600/9-75-001a** --BY R. P. Lauch, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 240 700/AS $3.75
670/4-75-002	1HA327	**Interfacing a 24-Point Analog Recorder to a Computer Controlled Telemetry Line — Abstracted 600/9-75-001a** --BY J. M. Teuschler, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 086/AS $3.75
670/4-75-003	1HA327	**Application and Procurement of Automatic Wastewater Samplers — Abstracted 600/9-75-001a** --BY R. P. Lauch, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 085/AS $3.75
670/4-75-004a	1HA327	**Fortran Programs for Analyzing Collaborative Test Date: Part I – General Statistics — Abstracted 600/9-75-001a** --BY E. C. Julian, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 707/AS $3.75
670/4-75-004b	1HA327	**Fortran Programs for Analyzing Collaborative Test Date: Part II – Scatter Plots — Abstracted 600/9-75-001a** --BY E. C. Julian, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241 708/AS $3.75
670/4-75-005	1HA327	**Investigation of the Orion Research Cyanide Monitor — Abstracted 600/9-75-001b** --BY R. J. O'Herron, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 241802/AS $3.75
670/4-75-006	1HA327	**Activities and Needs Related to Radioactive Standards for Environmental Measurements: A Symposium held in Washington, DC, August 21, 1973** BY J. E. Eldridge, and B. Kahn, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 243 256/AS $4.25
670/5-73-001		**670/5-73-001 thru 670/5-73-011 are Unassigned and will remain Unassigned ORDER FROM:** (Unassigned)

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/5–73–012	1DA312	**Systems Simulation and Solid Waste Planning: A Case Study** BY R. M. Clark, and J. I. Gillean, National Environmental Research Center, Office of Program Coordination Cincinnati, OH **ORDER FROM: NTIS-PB** 222 995 $3.75
670/5–73–013		**670/5–73–013 thru 670/5–73–019 are Unassigned and will remain Unassigned ORDER FROM:** (Unassigned)
670/5–73–020	1DA312	**Study of the Economics of Hospital Solid Waste Systems** BY R. G. Bond, Minnesota, University of, Division of Environmental Health Minneapolis, MN **ORDER FROM: NTIS-PB** 221 681 $9.00
670/5–73–021	1DA312	**Economic and Technological Impediments to Recycling Obsolete Ferrous Solid Waste** BY O. W. Albrecht, and R. G. McDermott, Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 223 034 $4.25
670/5–74–001	1DA312	**Hospital Solid Waste: An Annotated Bibliography** BY R. D. Siner, A. G. Duchene, and N. J. Vick, Minnesota, University of, School of Public Health Minneapolis, MN **ORDER FROM: NTIS-PB** 227 708/AS $5.75
670/5–74–002	1DA312	**Case Study and Business Analysis of the Scrap Industry** Resource Planning Institute Cambridge, MA **ORDER FROM: NTIS-PB** 229 200/AS $4.75
670/5–74–003	1DA312	**Can Federal Procurement Practices be Used to Reduce Solid Waste** BY J. Milgrom, Arthur D. Little, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 229 727/AS $7.50
670/5–74–004	1DA312	**Secondary Fiber Recovery Incentive Analysis** BY F. A. Cardin, Resource Planning Institute Cambridge, MA **ORDER FROM: NTIS-PB** 241 082/AS $10.25
670/5–74–005	1DA312	**Aluminum as a Component of Solid Waste and a Recoverable Resource** BY R. J. Talley, and R. H. Ongerth, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 235 770/AS $3.25
670/5–74–006	1DA312	**Criteria for Regional Solid Waste Management Planning — Abstracted 600/9–75–001a** --BY B. H. Stevens, Regional Science Research Institute Philadelphia, PA **ORDER FROM: NTIS-PB** 239 631 $9.50
670/5–74–007	1DA312	**Optimal Configuration of a Regional Solid Waste Management System** BY A. A. Pathak, California, University of Berkeley, CA **ORDER FROM: NTIS-PB** 233 360/AS $5.75
670/5–74–008	1DA312	**Optimization Models for Regional Public Systems** BY K. S. Vasan, California, University of Berkeley, CA **ORDER FROM: NTIS-PB** 231 309/AS $4.75
670/5–74–009	1DA312	**Model for Optimal Design and Operation of Solid Waste Transfer Stations** BY H. J. Yaffe, California, University of Berkeley, CA **ORDER FROM: NTIS-PB** 227 075/AS $4.50
670/5–75–001	1DA312	**Evaluation of Feasibility and Economic Implication of Pricing Mechanisms in Solid Waste Management — Abstracted 600/9–75–001a** —BY E. Ernst, ABT Associates, Inc. Cambridge, MA **ORDER FROM: NTIS-PB** 239 116/AS $4.75
670/9–73–001		**670/9–73–001 thru 670/9–73–003 are Unassigned and Will Remain Unassigned ORDER FROM:** (Unassigned)
670/9–73–004	1RA103	**Environmental Research Publications** National Environmental Research Center, Technical Information Office Cincinnati, OH **ORDER FROM: NTIS-PB** 223 591/AS $3.00
670/9–73–005		**670/9–73–005 thru 670/9–73–034 are Unassigned and Will Remain Unassigned ORDER FROM:** (Unassigned)
670/9–73–035	1DA312	**Socio-Economic Factors Affecting Demand for Municipal Collection of Household Refuse** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 225 020/7 $3.50
670/9–73–036		**670/9–73–036 thru 670/9–73–054 are Unassigned and will Remain Unassigned ORDER FROM:** (Unassigned)
670/9–73–055	1RA103	**Annual Report, 1972, NERC – Cincinnati** National Environmental Research Center, Technical Information Office Cincinnati, OH **ORDER FROM: NTIS-PB** 222 910 $3.75
670/9–73–056	1RA103	**Active Research Tasks Report, Fiscal Year 1973** BY G. R. Schultz, and D. J. Harmon, National Environmental Research Center, Office of Research and Development Cincinnati, OH **ORDER FROM: NTIS-PB** 223 567/AS $6.50
670/9–74–001	1RA103	**Environmental Research in 1973, Annual Report** National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 229 510/AS $5.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
670/9–74–002	1RA103	**News of Environmental Research in Cincinnati – May-December, 1973** National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 230 935/AS $6.25
670/9–74–003	1BB033	**Second U.S. – Japan Conference on Sewage Treatment Technology December 1–6, 1972** Office of Research and Development, Office of International Affairs Washington, DC **ORDER FROM: NTIS-PB** 230 709 $28.25
670/9–74–004	1RA103	**Excerpts from Control of Infiltration and Inflow into Sewer Systems and Prevention and Correction of Excessive Infiltration and Inflow Into Sewer Systems** National Environmental Research Center, Technical Information Staff Cincinnati, OH **ORDER FROM:** Pending
670/9–74–005	1BA027	**Virus in Waste, Renovated, and Other Waters – 1973 Literature Abstracts** BY G. Berg, Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH **ORDER FROM:** Pending
670/9–74–006	1RA103	**Pollution Control Technology Assessment – Proceedings of an Environmental Resources Conference, May 1–3, 1974 — Abstracted 600/9–75–001a** —Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 238 303/AS $7.00
670/9–75–001	1RA103	**Environmental Research Publications 1971–1975 — Abstracted 600/9–75–001a** —Technical Information Staff, NERC Cincinnati, OH **ORDER FROM: NTIS-PB** 239 602/AS $5.25
670/9–75–002	1RA103	**NERC-Cincinnati Annual Report, 1974 — Abstracted 600/9–75–001c** —Technical Information Staff, NERC Cincinnati, OH **ORDER FROM: NTIS-PB** 242 040/AS $5.25
670/9–75–003	1RA103	**News of Environmental Research in Cincinnati, January – December 1974 — Abstracted 600/9–75–001a —** Technical Information Staff, NERC Cincinnati, OH **ORDER FROM: NTIS-PB** 240 131/AS $4.25
670/9–75–004	1BB043	**Upgrading Wastewater Stabilization Ponds to Meet New Discharge Standards — Abstracted 600/9–75–001a** —BY E. J. Middlebrooks, D. H. Falkenborg, R. F. Lewis, and D. J. Ehreth, Utah State University Logan, UT **ORDER FROM: NTIS-PB** 240 402/AS $7.50
670/9–75–005	1RA103	**Third U.S. — Japan Conference on Sewage Treatment Technology, Proceedings, February 12 – 16, 1974 — Abstracted 600/9–75–001c** —National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 243 167/AS $13.00
670/9–75–006	1CB047	**Handbook for Evaluating Water Bacteriology — Abstracted 600/9–75–001c** —BY E. E. Geldreich, Water Supply Research Laboratory, NERC, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 247 145/AS $7.50
670/9–75–007	1BA027	**Viruses in Waste Renovated and other Viruses—1974 Literature Abstracts** BY G. Berg, National Environmental Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 245 957/AS $3.75
670/9–75–008	1CA046	**Literature Review and Bibliography of Mammalian Toxicology of Select Munitions — Abstracted 600/9–75–001c** —BY J. L. Mullaney, and R. G. Tardiff, Water Supply Research Laboratory, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 243 566/AS $4.25
680/1–75–001	1FA082	**Synergistic Effect of Polonium-210 and Cigarette Smoke in Rats — Abstracted 600/9–75–001b** —BY S. C. Black, and E. W. Bretthauer, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 246 174/AS $3.25
680/4–73–001b	1HA327	**Environmental Radioactivity Laboratory Intercomparison Studies Program, 1973 – 1974** Quality Assurance Research Laboratory, EPA Las Vegas, NV **ORDER FROM: GPO-**EP1.23/5:680/4–73–001b $0.65 **NTIS-PB** 240 962/AS $3.75
680/4–73–001A	1HA327	**Radioactivity Standards Distribution Program, 1973 – 1974** National Environmental Research Center, Quality Assurance Branch, EPA, Las Vegas, NV **ORDER FROM: GPO-**EP1.23/5:680/4–73–001A $0.60 **NTIS-PB** 240 955/AS $3.25
680/4–73–002	1HA326	**Simplified Atomic Absorption Determination of Stable Strontium in Milk and Hay** BY J. Barth, National Environmental Research Center, EPA Las Vegas, NV BY B. H. Bruckner, U.S. Department of Health, Education, and Welfare, National Institute for Occupational Safety and Health Rockville, MD **ORDER FROM: GPO-**EP1.23/5:680/4–73–002 $0.70 **NTIS-PB** 240 764/AS $3.75
680/4–74–001	1HA325	**Accumulation of Tritium in Various Species of Fish Reared in Tritiated Water** BY R. G. Patzer, A. A. Moghissi, and D. N. McNelis, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 238 684/AS $3.25

BIBLIOGRAPHIC SECTION

REPORT NO.		
680/4-74-002	1HA325	**Polluted Groundwater: Estimating the Effects of Man's Activities (Formerly 600/4-74-002)** BY J. F. Karuvian, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA **ORDER FROM: NTIS-PB** 241 078/AS $5.75
680/4-74-003	1HA325	**Rationale and Methodology for Monitoring Groundwater Polluted by Mining Activities (Formerly 600/4-74-003)** BY D. L. Warner, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA **ORDER FROM: NTIS-PB** 241 402/AS $4.75
680/4-75-001	1HA325	**Handbook of Radiochemical Analytical Methods — Abstracted 600/9-75-001a** —BY F. B. Johns, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 240 621/AS $5.75
680/4-75-002a	1HA327	**Radioactivity Standards Distribution Program - 1975 — Abstracted 600/9-75-001b** —Quality Assurance Research Laboratory, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 243 696/AS $3.25
680/4-75-002b	1HA327	**Environmental Radioactivity Laboratory Intercomparison Studies Program—1975 — Abstracted 600/9-75-001b** —National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 243 636/AS $3.75
680/4-75-003	1HA325	**Development of a Biological Monitoring Network-A Test Case: Suitability of Livestock and Wildlife as Biological Monitors for Organophosphorus Contaminants — Abstracted 600/9-75-001b** —BY W. W. Sutton, National Environmental Research Center, EPA Las Vegas, NV BY L. L. Salomon, Dugway Proving Ground Dugway, UT **ORDER FROM: NTIS-PB** 246 062/AS $3.75
680/4-75-004	1HA326	**Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques — Abstracted 600/9-75-001c** —National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM:** Pending
680/4-75-005	1HA327	**Tentative Reference Method for the Measurement of Gross Alpha and Gross Beta Radioactivities in Environmental Waters — Abstracted 600/9-75-001c** —Quality Assurance Branch, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 245 890/AS $3.25
680/4-75-006	1FA083	**Tritium Fractionation in Plants — Abstracted 600/9-75-001c** —BY J. C. McFarlane, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 245 839/AS $3.25
680/4-75-007	1HA327	**Preliminary Milk Report — Abstracted 600/9-75-001c** —BY A. N. Jarvis, and D. G. Easterly, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 245 598/AS $3.75
680/4-75-008	1HA326	**Monitoring Disposal-Well Systems — Abstracted 600/9-75-001c** —BY D. L. Warner, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA BY G. B. Morgan, National Environmental Research Center, EPA Las Vegas, NV **ORDER FROM: NTIS-PB** 246 214/AS $5.25

TITLE INDEX

Abatement of Mine Drainage Pollution By Underground Precipitation – REF. NO. EPA-670/2–73–092
Absorption of Sulfur Dioxide In Spray Column and Turbulent Contacting Absorbers – REF. NO. EPA-600/2–75–023
Absorption of SO_2 by Alkaline Solutions in Venturi Scrubber Systems – REF. NO. EPA-650/2–73–003
Absorption of SO_2 into Lime Slurries: Absorption Rates and Kinetics – REF. NO. EPA-650/2–73–047
Accumulation of Tritium in Various Species of Fish Reared in Tritiated Water – REF. NO. EPA-680/4–74–001
Acid Hydrolysis of Cellulose in Refuse to Sugar and its Fermentation to Alcohol – REF. NO. EPA-670/2–73–011
Acquisition and Culture of Research Fish — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–011
Actinomycetes of Sewage-Treatment Plants — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–031
Actions of Pesticides and Other Drugs on the Male Reproductive System – REF. NO. EPA-650/1–74–011
Activated Carbon Treatment of Unbleached Kraft Effluent for Reuse — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–75–004
Activated Silica in Wastewater Coagulation – REF. NO. EPA-670/2–74–047
Activated Sludge – Bio-Disc Treatment of Distillery Wastewater – REF. NO. EPA-660/2–74–014
Activated Sludge Process Using Pure Oxygen – REF. NO. EPA-670/2–73–042
Activated Sludge Treatment Systems With Oxygen – REF. NO. EPA-670/2–73–073
Active Research Tasks Report, Fiscal Year 1973 – REF. NO. EPA-670/9–73–056
Activities and Needs Related to Radioactive Standards for Environmental Measurements: A Symposium held in Washington, DC, August 21, 1973 – REF. NO. EPA-670/4–75–006
Adoption of Gausain Plume Model to Incorporate Multiple Station Data Input – REF. NO. EPA-600/3–75–003a
Adoption of Gausain Plume Model to Incorporate Multiple Station Data Input – Appendices – REF. NO. EPA-600/3–75–003b
Adsorption from Aqueous Solution – REF. NO. EPA-670/2–74–012
Adsorption of Odorous Pollutants by Active Manganese Dioxide – REF. NO. EPA-650/2–74–063
Advanced Automatic Control Strategies for the Activated Sludge Treatment Process — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–039
Advanced Prototype Direct Reading Instrument for Particulate Mass Measurement – REF. NO. EPA-650/2–74–065
Aerobic-Stabilization of Waste Activated Sludge – An Experimental Investigation – REF. NO. EPA-600/2–75–035
Aerodynamic Control of Nitrogen Oxides and Other Pollutants from Fossil Fuel Combustion Volume II – Raw Data and Experimental Equipment – REF. NO. EPA-650/2–73–033b
Aerodynamic Control of Nitrogen Oxides and Other Pollutants From Fossil Fuel Combustion Volume I – Data Analysis and Summary of Conclusions – REF. NO. EPA-650/2–73–033a
Aerosol Formation from Gas-Phase Reactions of Ozone and Olefin in the Presence of Sulfur Dioxide – REF. NO. EPA-650/4–74–034
Aesthetics in Environmental Planning – REF. NO. EPA-600/5–73–009
Agriculture and Clean Water – Proceedings of a Conference on Agricultural Water Pollution Control – REF. NO. EPA-600/9–75–005
Air Flotation – Biological Oxidation of Synthetic Rubber and Latex Wastewater – REF. NO. EPA-660/2–73–018
Air Pollution Effects on Catastrophic Failure of Metals – REF. NO. EPA-650/3–74–009
Air Pollution Exposure and Immunoglobulin Levels – REF. NO. EPA-650/1–75–005
Alternative Septage Treatment Method: Lime Stabilization/ Sand-Bed Dewatering — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–036
Alum Addition to Activated Sludge With Tertiary Solids Removal – REF. NO. EPA-670/2–73–037
Aluminum as a Component of Solid Waste and a Recoverable Resource – REF. NO. EPA-670/5–74–005
Ambient Air Measurements of Vinyl Chloride in the Niagara Falls Area – REF. NO. EPA-650/4–75–020
Ammonia Nitrogen Removal By Breakpoint Chlorination – REF. NO. EPA-670/2–73–058
An Investigation of Ion Removed From Water and Wastewater – REF. NO. EPA-660/3–74–022
Anaerobic-Aerobic Lagoon Treatment of Dairy Manure Wastes – REF. NO. EPA-660/2–74–030
Analysis of the Abandoned Automobile Problem – REF. NO. EPA-670/2–73–013
Analysis of the Composition of the Atmosphere in the Los Angeles Basin – REF. NO. EPA-650/2–74–105
Analysis of the Current Impact of Plastic Refuse Disposal Upon the Environment — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–083
Analysis of the Dynamics of DDT in Marine Sediments — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–013
Analysis of Carbon-14 and Tritium in Reactor Stack Gas – REF. NO. EPA-600/4–75–011
Analysis of Coprostanol, An Indicator of Fecal Contamination – REF. NO. EPA-660/2–74–021
Analysis of Cost Sharing Programs for Pollution Abatement of Municipal Wastewater – REF. NO. EPA-600/5–74–031
Analysis of Emissions from Outboard Two Cycle Marine Engines — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–061
Analysis of Multiple Cell Mechanical Draft Cooling Towers — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–039
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region — Abstracted 600/9–75–001a — REF. NO. EPA-600/5–75–004
Analysis of Organic Compounds in Two Kraft Mill Wastewaters — Abstracted 600/9–75–001c — REF. NO. EPA-660/4–75–005
Analysis of Pollution from Marine Engines and Effects on the Environment — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–062
Analysis of Pollution from Marine Engines and Effects on the Environment – Southern Lakes — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–063
Analysis of Pollution from Marine Engines and Effects on the Environment – Summary Report — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–064
Analysis of Pollution Control Costs – REF. NO. EPA-670/2–74–009
Analysis of Test Data for NOx Control in Gas and Oil-Fired Utility Boilers — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–012

TITLE INDEX

Analysis Models for Solid Waste Collection — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–026a
Analysis Models for Solid Waste Collection — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–026b
Analytical Methodology Information Center: Activities for 1973 – 1974 – REF. NO. EPA-670/4–74–003a
Analytical Quality Assurance for Trace Organic Analysis by Gas Chromatography/Mass Spectrometry – REF. NO. EPA-600/4–75–007
Andersen Filter Substrate Weight Loss — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–022
Annual Catalyst Research Program Report Appendices, Volume I – REF. NO. EPA-600/3–75–010b
Annual Catalyst Research Program Report Appendices, Volume II – REF. NO. EPA-600/3–75–010c
Annual Catalyst Research Program Report Appendices, Volume III
Annual Catalyst Research Program Report Appendices, Volume IV – REF. NO. EPA-600/3–75–010e
Annual Catalyst Research Program Report Appendices, Volume IX – REF. NO. EPA-600/3–75–010j
Annual Catalyst Research Program Report Appendices, Volume V – REF. NO. EPA-600/3–75–010f
Annual Catalyst Research Program Report Appendices, Volume VI – REF. NO. EPA-600/3–75–010g
Annual Catalyst Research Program Report Appendices, Volume VII – REF. NO. EPA-600/3–75–010h
Annual Catalyst Research Program Report Appendices, Volume VIII – REF. NO. EPA-600/3–75–010i
Annual Catalyst Research Program Report—Summary – REF. NO. EPA-600/3–75–010a
Annual Report for Calendar Year 1972, Environmental Toxicology Research – REF. NO. EPA-670/1–73–036
Annual Report, 1972, NERC – Cincinnati – REF. NO. EPA-670/9–73–055
Applicability of the Meyers Process for Chemical Desulfurization of Coal: Survey of 35 Coals – REF. NO. EPA-650/2–74–025a
Applicability of the Meyers Process of Chemical Desulfurization of Coal: Initial Survey of Fifteen Coals – REF. NO. EPA-650/2–74–025
Application and Procurement of Automatic Wastewater Samplers — Abstracted 600/9–75–001a — REF. NO. EPA-670/4–75–003
Application of Automatic Data Processing Technology to Laboratory Problems — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–035
Application of Exchange Resins for Treatment of Textile Dye Wastes – REF. NO. EPA-660/2–75–016
Application of Holographic Methods to the Measurement of Flames and Particulate – Volume II – REF. NO. EPA-650/2–74–031b
Application of Holographic Methods to the Measurement of Flames and Particulate – Volume 1 – REF. NO. EPA-650/2–74–031a
Application of Odor Technology to Mobil Sources Emission Instrumentation – REF. NO. EPA-650/2–73–025
Application of Repro-Modeling to the Analysis of a Photochemical Air Pollution Model – REF. NO. EPA-650/4–74–001
Applications of Growth and Sorption Algal Assays – REF. NO. EPA-660/3–73–023
Applications of Reverse Osmosis to Acid Mine Drainage Treatment – REF. NO. EPA-670/2–73–100
Applying Fabric Filtration to Coal Fired Industrial Boilers (A Pilot Scale Investigation) – REF. NO. EPA-650/2–74–058a
Applying Fabric Filtration to Coal Fired Industrial BoilersA Preliminary Pilot Scale Investigation – REF. NO. EPA-650/2–74–058
Appraisal of Neutralization Processes to Treat Coal Mine Drainage – REF. NO. EPA-670/2–73–093
Aqueous Odor Thresholds of Organic Pollutants in Industrial Effluents — Abstracted 600/9–75–001a — REF. NO. EPA-660/4–75–002
Asbestos Fiber Atlas – REF. NO. EPA-650/2–75–036
Assessing Effects on Water Quality by Boating Activity – REF. NO. EPA-670/2–74–072
Assessment and Development Plan for Monitoring of Organics in Storm Flows — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–087
Assessment of the Applicability of Automotive Emission Control Technology to Stationary Engines – REF. NO. EPA-650/2–74–051
Assessment of the Federal Noise Research, Development, and Demonstration Activities: FY 73 – FY 75 – REF. NO. EPA-600/2–75–010
Assessment of the Potential of Clean Fuels and Energy Technology – REF. NO. EPA-600/2–74–001
Assessment of Automatic Sewer Flow Samplers – 1975 – REF. NO. EPA-600/2–75–065
Assessment of Catalysts for Control of NOx from Stationary Power Plants, Phase I, Volume I – Final Report — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–001a
Assessment of Catalysts for Control of NOx from Stationary Power Plants, Phase I, Volume II – Data Bank Citation Indices — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–001b
Assessment of Economic Impact of Air Pollutants on Vegetation in the United States, 1969 and 1971 – REF. NO. EPA-650/5–73–002
Assessment of Particle Control Technology for Enclosed Asbestos Sources – REF. NO. EPA-650/2–74–088
Assessment of Wet Systems for Residential Refuse Collection: A Summary Report – REF. NO. EPA-670/2–74–068
Assessment Methodology for the Environmental Impact of Water Resource Projects – REF. NO. EPA-600/5–74–016
Atmospheric Emissions from the Asphalt Industry – REF. NO. EPA-650/2–73–046
Atmospheric Emissions from Asphalt Roofing Processes – REF. NO. EPA-650/2–74–101
Atmospheric Emissions From the Petroleum Refining Industry – REF. NO. EPA-650/2–73–017
Atmospheric Measurement of Photochemical Smog Reactions – A Preliminary Analysis – REF. NO. EPA-650/4–74–037
Atmospheric Turbulence Properties in the Lowest 300 Meters – REF. NO. EPA-600/4–75–004
Atomic Absorption Analysis of Phosphates in Water – REF. NO. EPA-670/2–73–079
Automated Analysis of Individual Refractory Organics in Polluted Water – REF. NO. EPA-660/2–74–076
Automatic Organic Monitoring System for Storm and Combined Sewers — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–067
Bacterial Zoogloea Formation – REF. NO. EPA-670/2–74–018
Batch Disinfection of Treated Wastewater With Chlorine at Less Than 1 Degree C – REF. NO. EPA-660/2–73–005
Bench-Scale High-Rate Disinfection of Combined Sewer Overflows With Chlorine and Chlorine Dioxide — Abstracted 600/9–75–001b – – REF. NO. EPA-670/2–75–021
Benefit of Water Pollution Control on Property Values – REF. NO. EPA-600/5–73–005
Bibliography of the Cat – REF. NO. EPA-650/3–74–001
Bibliography of Publications and Reports of the Pacific Northwest Environmental Research Laboratory – REF. NO. EPA-660/9–74–001
Bibliography of R&D Research Reports – July 1973 – REF. NO. EPA-600/5–73–002
Bibliography of Water Pollution Control Benefits and Costs – REF. NO. EPA-600/5–74–028
Big Eddies and Mixing Processes in the Great Lakes – REF. NO. EPA-660/3–73–011

TITLE INDEX

Bio-Environmental Impact of Air Pollution from Fossil Fuel Power Plants – REF. NO. EPA-660/3-74-011
Bioflocculation and the Accumulation of Chemicals By Floc-Forming Organisms — Abstracted 600/9-75-001c — REF. NO. EPA-600/2-75-032
Biological Control of Aquatic Vegetation – REF. NO. EPA-660/3-74-007
Biological Conversion of Animal Wastes to Nutrients – REF. NO. EPA-670/2-73-009
Biological Field and Laboratory Methods for Measuring the Quality of Surface Waters and Effluents – REF. NO. EPA-670/4-73-001
Biological Models of Freshwater Communities – REF. NO. EPA-660/3-73-008
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-75-019
Biological Treatment of Concentrated Sugar Beet Wastes – REF. NO. EPA-660/2-74-028
Biologically Allowable Thermal Pollution Limits, Parts I and II – REF. NO. EPA-660/3-74-003
Boiler Modification Cost Survey for Sulfur Oxides Control by Fuel Substitution — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-123
Braxton Sonic Agglomerator Evaluation – REF. NO. EPA-650/2-74-036
Brine Disposal Treatment Practices Relating to the Oil Production Industry – REF. NO. EPA-660/2-74-037
BOD, Solids and Nutrient Removal By Foam Flotation – REF. NO. EPA-670/2-73-096
Cadmium in the Environment – III A Toxicological and Epidemiological Appraisal – REF. NO. EPA-650/2-75-049
California Environmental Quality Act: Innovation in State and Local Decision making – REF. NO. EPA-600/5-74-023
Can Federal Procurement Practices be Used to Reduce Solid Waste – REF. NO. EPA-670/5-74-003
Capacity of the Soil as a Natural Sink for Carbon Monoxide – REF. NO. EPA-650/2-73-043
Carbon, Nitrogen, and Phosphorus Removal in Staged NitrificationDenitrification Treatment — Abstracted 600/9-75-001c — REF. NO. EPA-670/2-75-052
Carbonate Bonding of Taconite Tailings – REF. NO. EPA-670/2-74-001
Carrying Capacity in Regional Environmental Management – REF. NO. EPA-600/5-74-021
Case Study and Business Analysis of the Scrap Industry – REF. NO. EPA-670/5-74-002
Catalytic Combustion, a Pollution-Free Means of Energy Conversion – REF. NO. EPA-650/2-73-018
Catalytic Desulfurization and Denitrogenation – REF. NO. EPA-600/2-75-063
Catalytic Oxidation of Sulfur Dioxide Using Isotopic Tracers – REF. NO. EPA-650/2-73-020
Catalyzed Bio-Oxidation and Tertiary Treatment of Integrated Textile Wastewaters – REF. NO. EPA-660/2-74-039
Changes in the Global Energy Balance – REF. NO. EPA-650/2-74-116
Characterization and Control of Asbestos Emissions from Open Sources — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-090
Characterization and Treatment of Combined Sewer Overflows — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-75-054
Characterization and Treatment of Urban Land Runoff — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-74-096
Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. I – Summary — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-75-033a
Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. II – Municipal Sludges — Abstracted 600/9-75-001b — – REF. NO. EPA-670/2-75-033b
Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. III – Utility Coal Ash — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-75-033c
Characterization and Utilization of Municipal and Utility Sludges and Ashes: Vol. IV – Municipal Incinerator Residues — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-75-033d
Characterization of Atmospheric Emissions from Polyurethane Resin Manufacture – REF. NO. EPA-650/2-74-107
Characterization of Vessel Waste in Duluth-Superior Harbor — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-74-097
Characterization of Waste Waters from the Ethical Pharmaceutical Industry – REF. NO. EPA-670/2-74-057
Charged Droplet Scrubbing of Submicron Particulate – REF. NO. EPA-650/2-74-075
Chemical and Physical Characterization of Automotive Exhaust Particulate Matter in the Atmosphere (Year Ending June 30, 1972) – REF. NO. EPA-650/2-73-001
Chemical and Physical Characterization of Automotive Exhaust Particulate Matter in the Atmosphere (Year Ending June 30, 1973) – REF. NO. EPA-650/2-73-002
Chemical Characterization of Model Aerosols – REF. NO. EPA-650/3-74-011
Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon — Abstracted 600/9-75-001c — REF. NO. EPA-660/2-75-025
Chemical Conversion of Solid Waste to Useful Products – REF. NO. EPA-670/2-74-027
Chemical Conversion of Wood and Cellulosic Wastes – REF. NO. EPA-670/2-74-015
Chemical Impact of Snow Dumping Practices — Abstracted 600/9-75-001b — REF. NO. EPA-670/2-74-086
Chemical/Biological Relationships Relevant to Ecological Effects of Acid Rainfall — Abstracted 600/9-75-001c — REF. NO. EPA-660/3-75-032
Chemical/Physical and Biological Treatment of Wool Processing Wastes – REF. NO. EPA-660/2-73-036
Chemically Active Fluid-Bed Process for Sulphur Removal During Gasification of Heavy Fuel Oil—Second Phase – REF. NO. EPA-650/2-73-039
Chemically Active Fluid-Bed Process for Sulphur Removal During Gasification of Heavy Fuel Oil – Second Phase – REF. NO. EPA-650/2-74-109
Chemiluminescent Reactive Hydrocarbon Analyzer for Mobile Sources – REF. NO. EPA-650/2-75-069
Chemistry of Organomercurials in Aquatic Systems – REF. NO. EPA-660/3-73-012
Chena River—A Study of a Subarctic Stream — Abstracted 600/9-75-001b — REF. NO. EPA-660/3-75-019
Chlorinated Hydrocarbons in the Lake Ontario Ecosystem (IFYGL) — Abstracted 600/9-75-001b — REF. NO. EPA-660/3-75-022
Cladophora Distribution in Lake Ontario (IFYGL) — Abstracted 600/9-75-001a — REF. NO. EPA-660/3-74-028
Coke Charging Pollution Control Demonstration – REF. NO. EPA-650/2-74-022
Coke Oven Charging Emission Control Test Program – Supplemental Observations – REF. NO. EPA-650/2-74-062a

TITLE INDEX

Coke Oven Charging Emission Control Test Program—Volume I – REF. NO. EPA-650/2-74-062
Coke Oven Smokeless Pushing System Design Manual – REF. NO. EPA-650/2-74-076
Coliform Bacteria Growth and Control in Aerated Stabilization Basins – REF. NO. EPA-660/2-73-028
Collaborative Study of EPA Methods 5,6, and 7 in Fossil Fuel-Fired Steam Generators – REF. NO. EPA-650/4-74-013
Collaborative Study of Method for the Determination of Nitrogen Oxide Emissions from Stationary Sources (Fossil Fuel-Fired Steam Generators) – REF. NO. EPA-650/4-74-025
Collaborative Study of Method for the Determination of Nitrogen Oxide Emissions from Stationary Sources (Nitric Acid Plants) – REF. NO. EPA-650/4-74-028
Collaborative Study of Method for the Determination of Particulate Matter Emissions From Stationary Sources (Fossil Fuel-Fired Steam Generators) – REF. NO. EPA-650/4-74-021
Collaborative Study of Method for the Determination of Particulate Matter Emissions from Stationary Sources (Municipal Incinerators) – REF. NO. EPA-650/4-74-022
Collaborative Study of Method for the Determination of Particulate Emissions from Stationary Sources (Portland Cement Plants) – REF. NO. EPA-650/4-74-029
Collaborative Study of Method for the Determination of Sulfur Dioxide Emissions From Stationary Sources (Fossil Fuel-Fired Steam Generators) – REF. NO. EPA-650/4-74-024
Collaborative Study of Method for the Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources – REF. NO. EPA-650/4-75-003
Collaborative Study of Method for Determination of Stack Gas Velocity and Volumetric Flow Rate in Conjunction with EPA Method 5 – REF. NO. EPA-650/4-74-033
Collaborative Study of Method for Stack Gas Analysis and Determination of Moisture Fraction with Use of Method 5 – REF. NO. EPA-650/4-74-026
Collaborative Study of Method 10 – Reference Method for Determination of Carbon Monoxide Emissions from Stationary Sources – Report of Testing – REF. NO. EPA-650/4-75-001
Collaborative Study of Method 104 – Reference Method for Determination of Beryllium Emission from Stationary Sources – REF. NO. EPA-650/4-74-023
Collaborative Study of Reference Method for Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method) (24-hour Sampling) – REF. NO. EPA-650/4-74-027
Collaborative Study of Reference Method for Measurement of Ozone in the Atmosphere (Ozone-Ethylene Chemiluminescent Method) – REF. NO. EPA-650/4-75-016
Collaborative Test of the Chemiluminescent Method for Measurement of NO_2 in Ambient Air – REF. NO. EPA-650/4-75-013
Collaborative Test of the Continuous Colori-Metric Method for Measurement of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4-75-011
Collaborative Test of the TGS-ANSA Method for Measurement of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4-74-046
Collaborative Testing Methods for Measurements of NO_2 in Ambient Air Volume I – Report of Testing – REF. NO. EPA-650/4-74-019a
Collection and Analysis of Airborne Suspended Particulate Matter Respirable to Humans for Sulfates and Polycyclic Organics – REF. NO. EPA-600/4-75-009
Collection Efficiency Study of the Proposed Method 13 Sampling Train – REF. NO. EPA-600/2-75-052
Color Characterization Before and After Lime Treatment – REF. NO. EPA-660/2-74-029
Color Removal and Sludge Disposal Process for Kraft Mill Effluents – REF. NO. EPA-660/2-74-008
Color Removal From Kraft Mill Effluents By Ultrafiltration – REF. NO. EPA-660/2-73-019
Combined Sewer Overflow Seminar Papers — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-73-077
Combined Sewer Overflow Treatment by the Rotating Biological Contactor Process – REF. NO. EPA-670/2-74-050
Combustion Control of Pollutants from Multiburner Coal-fired System – REF. NO. EPA-650/2-74-038
Combustion Products from the Incineration of Plastics – REF. NO. EPA-670/2-73-049
Combustion Toilet for Use on Small Boats – REF. NO. EPA-670/2-74-053
Compact Sampling System for Collection of Particulates from Stationary Sources — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-029
Comparability of Nine Methods for Monitoring NO_2 in Ambient Air – REF. NO. EPA-650/4-74-012
Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life – REF. NO. EPA-600/3-75-012
Comparison of Germanium Detectors for Neutron Activation Analysis for Mercury – REF. NO. EPA-660/2-74-045
Comparison of Methods for Determination of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4-75-023
Compilation of Methodology Used for Measuring Pollution Parameters of Sanitary Landfill Leachate – REF. NO. EPA-600/3-75-011
Composted Municipal Refuse as a Soil Amendment – REF. NO. EPA-670/2-73-063
Comprehensive Management of Phosphorus Water Pollution – REF. NO. EPA-600/5-74-010
Comprehensive Technical Report on all Atmospheric Contaminants Associated with Photochemical Air Pollution – REF. NO. EPA-650/4-75-002
Computer Management of a Combined Sewer System – REF. NO. EPA-670/2-74-022
Concepts for Development of Field Usable Test Atmosphere Generating Devices – REF. NO. EPA-650/4-74-016
Conceptual Design of a Commercial Scale Plant for Chemical Desulfurization of Coal – REF. NO. EPA-600/2-75-051
Conceptual Model for the Movement of Pesticides Through the Environment – REF. NO. EPA-660/3-74-024
Conditioning of Fly Ash with Sulfamic Acid, Ammonium Sulfate, and Ammonium Bisulfact — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-114
Conditioning of Fly Ash With Sulfur Tri-Oxide and Ammonia – REF. NO. EPA-600/2-75-015
Conference on Recycling Treated Municipal Wastewater Through Forest and Cropland – REF. NO. EPA-660/2-74-003
Continuous Inplant Hot Gas Blanching of Vegetables – REF. NO. EPA-660/2-74-091
Continuous Measurement of Gas Composition From Stationary Sources – REF. NO. EPA-600/2-75-012
Continuous Measurement of Total Gas Flowrate from Stationary Sources — Abstracted 600/9-75-001c — REF. NO. EPA-650/2-75-020

TITLE INDEX

Contributions of Urban Roadway Usage to Water Pollution — Abstracted 600/9–75–001b — REF. NO. EPA-600/2–75–004
Control of Environmental Impacts From Advanced Energy Sources – REF. NO. EPA-600/2–74–002
Control of Hydrocarbon Emissions From Petroleum Liquids — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–042
Control of Sulfur Dioxide Emissions from Copper Smelters: Volume I – Steam Oxidation of Pyritic Copper Concentrates – REF. NO. EPA-650/2–74–085a
Control of Sulfur Dioxide Emissions from Copper Smelters: Volume II – Hydrogen Sulfide Production from Copper Concentrates – REF. NO. EPA-650/2–74–085b
Control of Water Pollution From Cropland, Vol. I – A Manual for Guideline Development – REF. NO. EPA-600/2–75–026a
Control Schemes for the Activated-Sludge Process – REF. NO. EPA-670/2–74–069
Control Technology for Fine Particulate Emissions – REF. NO. EPA-650/2–74–027
Controlling Sulfides in Sanitary Sewers Using Air and Oxygen — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–060
Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas – REF. NO. EPA-660/2–74–090
Copper Recovery from Brass Mill Discharge by Cementation with Scrap Iron — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–029
Cost of Dissolved Air Flotation Thickening of Waste Activated Sludge at Municipal Sewage Treatment Plants – REF. NO. EPA-670/2–74–011
Cost Evaluation of Alternative Air Quality Strategies – REF. NO. EPA-600/5–74–003
Cost-Effective Design Based Upon Field Derived Parameters – REF. NO. EPA-670/2–74–062
Cost-Effectiveness of a Uniform National Sulfur Emissions Tax – REF. NO. EPA-600/5–74–009
Costs of Filter Pressing Domestic Sewage Sludges – REF. NO. EPA-670/2–74–006
Costs of Hauling and Land Spreading of Domestic Sewage Treatment Plant Sludge – REF. NO. EPA-670/2–74–010
Countermeasures for Pollution From Overflow – The State of the Art — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–090
Crankcase Drainage from In-Service Out-board Motors — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–092
Criteria for Regional Solid Waste Management Planning — Abstracted 600/9–75–001a — REF. NO. EPA-670/5–74–006
Critique of Pollution Time Allocation in River Basin Model – REF. NO. EPA-600/5–73–007
Crop Insurance and Information Services to Control Use of Pesticides – REF. NO. EPA-600/5–74–018
Culturing and Ecology of Diaptomus Clavipes and Cyclops Vernalis – REF. NO. EPA-660/3–74–006
Degradation Mechanism: Controlling the Bioaccumulation of Hazardous Materials — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–005
Demetallization of Heavy Residual Oils – REF. NO. EPA-650/2–73–041
Demetallization of Heavy Residual Oils – Phase II – REF. NO. EPA-650/2–73–041a
Demineralization of Wastewater by Electrodialysis – REF. NO. EPA-600/2–75–047
Demonstrated Technology and Research Needs for Reuse of Municipal Wastewater — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–038
Demonstration of a High-Rate Activated Sludge System — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–037
Demonstration of a Non-Aqueous Sewage Disposal System – REF. NO. EPA-670/2–73–088
Demonstration of a State Water Quality Management Information System – REF. NO. EPA-600/5–74–022
Demonstration of the Separation and Disposal of Concentrated Sediments – REF. NO. EPA-660/2–74–072
Demonstration of Reduced Hydrocarbon Emissions from Gasoline Loading Terminals — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–042
Demonstration of Thermal Water Utilization in Agriculture – REF. NO. EPA-660/2–74–011
Demonstration of Three Recirculating Swine Waste Management Systems – REF. NO. EPA-660/2–74–009
Demonstration of Waste Flow Reduction from Households – REF. NO. EPA-670/2–74–071
Design and Control of Incinerators, Volume I – REF. NO. EPA-670/2–73–089A
Design and Control of Incinerators, Volume II – Appendices – REF. NO. EPA-670/2–73–089B
Design and Performance Considerations for a Pilot Process for Separating Mixed Municipal Refuse — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–040
Design and,Simulation of Equalization Basins – REF. NO. EPA-670/2–73–046
Design of an Optimum Distillate Oil Burner for Control of Pollutant Emissions – REF. NO. EPA-650/2–74–047
Design of the EPA Semi-Trailer Mobile Air Pollution Laboratory – REF. NO. EPA-650/4–74–017
Design of Cost-Effective Water Quality Surveillance Systems – REF. NO. EPA-600/5–74–004
Design Development and Fabrication of a Prototype High-Vol. Particulate Mass Sampling Train – REF. NO. EPA-650/2–74–067
Design Parameters for Animal Waste Treatment Systems – REF. NO. EPA-660/2–74–063
Design Trends and Operating Problems in Combustion Modification of Industrial Boilers – REF. NO. EPA-650/2–74–032
Design, Construction, and Testing of a Commercial Prototype Disc Diluter – REF. NO. EPA-650/2–74–055
Design, Development, and Field Test of a Droplet Measuring Device – REF. NO. EPA-650/2–75–018
Design, Fabricate, and Demonstrate an Instrument for Assaying Benzo (a) Pryrene – REF. NO. EPA-650/2–74–068
Design, Fabrication, and Installation of a Particulate Aerodynamic Test Facility – REF. NO. EPA-650/2–74–103
Detailed Cost Estimates For Advanced Effluent Desulfurization Processes — Abstracted 600/9–75–001b — REF. NO. EPA-600/2–75–006
Detention Tank for Combined Sewer Overflow – Milwaukee, Wisconsin, Demonstration Project – REF. NO. EPA-600/2–75–071
Determination of the Formation Mechanisms and Composition of Photochemical Aerosols – REF. NO. EPA-650/3–73–002
Determination of the Magnitude of SO_2, NO, CO_2, and O_2 Stratification in the Ducting of Fossil Fuel Fired Power Plants – REF. NO. EPA-600/2–75–053
Determination of Aircraft Turbine Engine Particulates – REF. NO. EPA-650/2–75–055
Determination of Coronal Ozone Production by High Voltage Power Transmission Lines – REF. NO. EPA-650/4–73–003
Determination of Effect of Particulate Exhaust Emissions of Additives and Impurities in Gasoline – REF. NO. EPA-650/2–74–061
Determination of Energetic Characteristics of Urban-Rural Surfaces in the Greater St. Louis Area – REF. NO. EPA-650/4–74–007
Determination of Hazardous Elements in Smelter-Produced Sulfuric Acid – REF. NO. EPA-650/2–74–131

TITLE INDEX

Determination of Incinerator Operating Conditions Necessary for Safe Disposal of Pesticides – REF. NO. EPA-600/2-75-041
Determination of Molecular Hydrogen Sulfide — Abstracted 600/9-75-001a — REF. NO. EPA-660/4-75-001
Determination of Volatile Organic Compounds at the UG/1 Level in Water by Gas Chromatography – REF. NO. EPA-670/4-74-009
Development and Evaluation Report: Physical Chemical Marine Sanitation System – REF. NO. EPA-670/2-74-043
Development and Fabrication of Mass Emission Data and Control System for the Stationary Source Simulator – REF. NO. EPA-650/2-73-009
Development and Testing of An Air Monitoring System – REF. NO. EPA-650/2-74-019
Development of a Biological Monitoring Network-A Test Case: Suitability of Livestock and Wildlife as Biological Monitors for Organophosphorus Contaminants — Abstracted 600/9-75-001b — REF. NO. EPA-680/4-75-003
Development of a Decision Room For Environmental Studies – REF. NO. EPA-600/5-73-011
Development of a High-Purity for High Temperature Particulate Sampling and Analysis – REF. NO. EPA-650/2-73-032
Development of a Methodology for the Assessment of the Effects of Fuels and Additives on Control Devices – REF.. NO. EPA-650/2-74-060
Development of a Monthly Industrial Technology Bulletin – REF. NO. EPA-600/2-74-007
Development of a Monthly Technology Bulletin – REF. NO. EPA-600/2-74-005
Development of a Prototype Nitrate Detecter – REF. NO. EPA-650/2-74-133
Development of a Prototype Sulfuric Acid Monitor – REF. NO. EPA-650/2-75-013a
Development of a Selective Algaecide to Control Nuisance Algal Growth – REF. NO. EPA-660/3-73-006
Development of a Supplementary Emission Measurements Monitoring System – REF. NO. EPA-650/2-73-008
Development of an Acetylene Monitor at the PPB Level – REF. NO. EPA-650/2-74-056
Development of an Approach to Identification of Emerging Technology and Demonstration Opportunities – REF. NO. EPA-650/2-74-048
Development of an Economic Analytical Framework for Solid Waste Policy Analysis – REF. NO. EPA-600/5-75-014
Development of an Instrumental Monitoring Method for Measurement of Asbestos Concentrations in or Near Sources – REF. NO. EPA-650/2-73-016
Development of A Gas Laser System to Measure Trace Gases by Long Path Absorption Techniques: Volume II – Field Evaluation of Gas Laser System for Ozone Monitoring Final Report – REF. NO. EPA-650/2-74-046b
Development of Air Particulate Monitoring Systems – REF. NO. EPA-650/4-74-030
Development of Air Sampling Methodology – REF. NO. EPA-650/2-75-067
Development of Analytic Techniques to Measure Human Exposure to Fuel Additives – REF. NO. EPA-650/1-74-003
Development of Analytical Techniques for Measuring Ambient Atmospheric Carcinogenic Vapors – REF. NO. EPA-600/2-75-076
Development of Field Applied DDT – REF. NO. EPA-660/2-74-036
Development of Gas Laser System to Measure Trace Gases by Longpath Absorption Techniques:Volume I – Gas Laser System Modification for Ozone Monitoring Final Report – REF. NO. EPA-650/2-74-046a
Development of Instrumentation for Measurement of Stationary Source Aldehyde Organic Acid and Amine Emissions – REF. NO. EPA-650/2-73-010
Development of Instrumentation for Quantitative Collection of Total Atmospheric Mercury From Ambient Air-Final Report – REF. NO. EPA-650/2-73-052
Development of Low Pressure Impacter – REF. NO. EPA-650/2-74-014
Development of Method for Carcinogenic Vapor Analysis in Ambient Atmospheres – REF. NO. EPA-650/2-74-121
Development of Modeling Technique for Photochemical Air Pollution – REF. NO. EPA-650/4-74-003
Development of On-Shore Treatent System for Sewage from Watercraft Retention System – REF. NO. EPA-670/2-74-056
Development of Phosphate – Free Heavy Duty Detergents – REF. NO. EPA-600/2-74-003
Development of Predictions of Future Pollution Problems – REF. NO. EPA-600/5-74-005
Development of Range Squared and Off-Gating Modifications for a Lidar System – REF. NO. EPA-650/2-73-040
Development of Sample Preparation Methods for Development of Marine Organisms – REF. NO. EPA-660/3-74-026
Development of Sampling and Analytical Methods of Lime/Limestone Wet Scrubbing Tests – REF. NO. EPA-650/2-74-024
Development of Sampling Devices for Gaseous Atmospheric Tracers – REF. NO. EPA-650/4-74-050
Development of Sampling Method for Total Atmospheric Selenium — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-124
Development of Sampling Procedures for Polycyclic Organic Matter and Polychlorinated Biphenyls – REF. NO. EPA-650/2-75-007
Development of Scanning Electron Microscopy for Measurement of Airborne Asbestos Concentrations – REF. NO. EPA-650/2-75-029
Development of Selective Hydrocarbon Sampling System and Field Evaluation with Conventional System – REF. NO. EPA-650/2-75-050
Development of Technical Specifications for Standard Gas-Diluent Mixtures for Use in Measurement of Mobile Source Emissions – REF. NO. EPA-650/4-74-020
Development of Urban Air Quality Simulation Model With Compatible RAPS Data – Vol. I – REF. NO. EPA-600/4-75-005a
Development of X-Ray Fluorescence Spectroscopy in Element Analysis of Particulate Matter Phase II: Evaluation of Commerical Multiple Crystal Spectrometer Instruments – REF. NO. EPA-650/2-73-006
Device Collection and Assay of Ambient Gases – REF. NO. EPA-650/2-74-006
Devices for On – Board Treatment of Waste from Vessels — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-74-091
Diffusion in Turbulent Surface Layer and the Development of an Atmospheric Wind Tunnel – REF. NO. EPA-650/4-74-041
Direct Determination of Metals in Air – REF. NO. EPA-650/2-73-011
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Summary Report — Abstracted 600/9-75-001c — REF. NO. EPA-670/2-75-050a
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix A. Weather and Lake Level Data, Water Quality Data, and Raw Water Pumping Schedule — Abstracted 600/9-75-001c — REF. NO. EPA-670/2-75-050b
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix B. Design, Installation and Operation of Pilot Filters. Appendix C. Summary of Data for Individual Filter Runs — Abstracted 600/9-75-001c — REF. NO. EPA-670/2-75-050c
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix D. Head Loss and Turbidity Curves for Individual Filter Runs — Abstracted 600/9-75-001c — REF. NO. EPA-670/2-75-050d

TITLE INDEX

Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix E. Ontario Research Foundation Electron Microscope Analysis Results. Appendix F. EPA National Water Quality Laboratory X-Ray Diffraction Analysis Results. Appendix G. University of Minnesota at Duluth Electron Microscope Analysis Results — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–050e
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix H. Comparison of Turbidimeters — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–050f
Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal – Appendix I. Diatomite Filters for Asbestiform Fiber Removal from Water — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–050g
Direct Use of Coal in a Fuel Cell: Feasibility Investigation – REF. NO. EPA-650/2–75–040
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities — Abstracted 600/9–75–001b — REF. NO. EPA-600/4–75–001
Disinfection of Sewage Effluents – REF. NO. EPA-670/2–73–029
Dispersal Processes in Lake Huron – REF. NO. EPA-660/2–74–082
Dispersion in Hydrologic and Coastal Environments – REF. NO. EPA-660/3–73–010
Dispersion From Pall Pack – REF. NO. EPA-600/4–75–006
Disposal and Utilization of Waste Kiln Dust From Cement Industry — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–043
Disposal of By-products from Non-regenerable Flue Gas Desulfurization Systems: Initial Report – REF. NO. EPA-650/2–74–037a
Distributions of Industrial and Commercial-Institution External Combustion Boilers — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–021
Drift Data Acquired on Mechanical Salt Water Cooling Devices – REF. NO. EPA-650/2–75–060
Dry Caustic Heating of Clingstone Peaches on a Commercial Scale – REF. NO. EPA-660/2–74–092
Dual Functioning Swirl Combined Sewer Overflow Regulator/ Concentrator – REF. NO. EPA-670/2–73–059
Dynactor Scrubber Evaluation — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–082a
Dynamic Water Quality Forecasting and Management – REF. NO. EPA-660/3–73–009
Dynamics and Diffusion in the Great Lakes – REF. NO. EPA-660/2–74–083
Early Life History and Feeding of Young Mountain Whitefish – REF. NO. EPA-660/3–73–019
Economic and Environmental Benefits from Improving Electrical Rate Structures – REF. NO. EPA-600/5–74–033
Economic and Technological Impediments to Recycling Obsolete Ferrous Solid Waste – REF. NO. EPA-670/5–73–021
Economic Analysis of the Processing and Disposal of Refuse Sludges – REF. NO. EPA-670/2–74–037
Economic Damages of Air Pollution – REF. NO. EPA-600/5–74–012
Economic Damages to Household Systems From Water Supply Use – REF. NO. EPA-600/5–73–001
Economic Disincentives for Pollution Control: Legal Political and Administrative Dimensions – REF. NO. EPA-600/5–74–026
Economic Evaluation of Technical Systems for Scrap Tire Recycling – REF. NO. EPA-600/5–75–019
Economical Residential Pressure Sewer System with No Effluent – REF. NO. EPA-600/2–75–072
Effect of Carbon to Nitrogen Ratio on Activated Sludge Subsidence and Dewatering Characteristics — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–74–025
Effect of Carbon Monoxide on Time Perception – REF. NO. EPA-650/1–74–005
Effect of Chemical Composition on the Surface Resistivity of Fly Ash – REF. NO. EPA-600/2–75–017
Effect of Fuel Additives Study – REF. NO. EPA-650/2–74–096
Effect of Fuel Sulfur on NO_x Emissions from Premixed Flames – REF. NO. EPA-600/2–75–075
Effect of Gas Turbine Efficiency and Fuel Cost on Cost Producing Electric Power – REF. NO. EPA-650/2–74–041
Effect of Gasoline Additives on Gaseous Emissions – REF. NO. EPA-650/2–75–014
Effect of Geographical Variation on Performance of Recirculating Cooling Ponds – REF. NO. EPA-660/2–74–085
Effect of Meteorological Variables on Temperature Changes in Flowing Streams — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–002
Effect of Mirex and Carbofuran on Estuarine Microorganisms — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–75–024
Effect of Phosphorus Removal Processes on Algal Growth – REF. NO. EPA-660/3–73–015
Effect of Processing Poultry Manure on Disease Agents – REF. NO. EPA-670/2–73–041
Effectiveness of Selected Fuel Additives in Controlling Pollution Emissions From Residual Oil-Fired Boilers – REF. NO. EPA-650/2–73–031
Effects of Air Pollutants on Textile Fibers and Dyes – REF. NO. EPA-650/3–74–008
Effects of Atmospheric Aerosols on Infrared Irradiance at the Earth's Surface in a Non-Urban Environment – REF. NO. EPA-650/4–75–017
Effects of Crude Oil and Some of Its Components on Young Coho and Sockeye Salmon – REF. NO. EPA-660/3–73–018
Effects of Design and Operating Variables on NO_x from Coal-Fired Furnaces— Phase I – REF. NO. EPA-650/2–74–002a
Effects of Design and Operating Variables on NOx from Coal-Fired Furnaces – Phase II – REF. NO. EPA-650/2–74–002b
Effects of Exhaust from Two-Cycled Outboard Engines – REF. NO. EPA-670/2–74–063
Effects of Forest Fires on Water Quality in Interior Alaska — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–75–020
Effects of Mirex and Methoxychlor on Striped Mullet, Mugil cephalus L. — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–015
Effects of Nozzle Design and Sampling Techniques on Aerosol Measurements – REF. NO. EPA-650/2–74–070
Effects of Protozoa on the Fate of Particulate Carbon – REF. NO. EPA-660/3–73–007
Effects of Temperature on Diseases of Salmonid Fishes – REF. NO. EPA-660/3–73–020
Effects of Transient Operating Conditions on Steam – Electric Generator Emissions – REF. NO. EPA-600/2–75–022
Effects of Water Pollution Controls on Solid Waste Generation, 1971 to 1985: Executive Summary — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–095a
Efficiencies in Power Generation – REF. NO. EPA-650/2–74–021
Egg Breaking and Processing Waste Control and Treatment — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–019
Electrochemical Carbon Regeneration – REF. NO. EPA-670/2–75–028
Electrochemical Removal of Heavy Metals from Acid Mine Drainage – REF. NO. EPA-670/2–74–023
Electrolytic Treatment of Job Shop Metal Finishing Wastewater – REF. NO. EPA-600/2–75–028
Electrostatic Precipitator Performance Model — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–132

TITLE INDEX

Enclosed Coke Pushing and Quenching System Design Manual – REF. NO. EPA-650/2–73–028
Energy Consumption: Fuel Utilization and Conservation in Industry – REF. NO. EPA-650/2–75–032d
Energy Consumption: Paper, Stone/Clay/Glass/Concrete, and Food Industries — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–032c
Energy Consumption: The Chemical Industry — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–032a
Energy Consumption: The Primary Metals and Petroleum Industries — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–032b
Enforcement Economics in Air Pollution Control – REF. NO. EPA-600/5–73–014
Enhancing Trickling Filter Plant Performance By Chemical Precipitation – REF. NO. EPA-670/2–73–060
Entrainment Separators for Scrubbers – Final Report – REF. NO. EPA-650/2–74–119b
Entrainment Separators for Scrubbers – Initial Report – REF. NO. EPA-650/2–74–119a
Environment: A Bibliography of Social Science and Related Literature – REF. NO. EPA-600/5–74–011
Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY '73 – REF. NO. EPA-660/2–74–078
Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 74 — Abstracted 600/9–75–001c — REF. NO. EPA-660/4–75–004
Environmental Applications of Advanced Instrumental Analysis: Assistance Projects, FY 72 – REF. NO. EPA-660/2–73–013
Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–058
Environmental Base and Management Study – Atchafalaya Basin, Louisiana — Abstracted 600/9–75–001b — REF. NO. EPA-600/5–75–006
Environmental Chamber Studies of Atmospheric Aerosols – REF. NO. EPA-650/4–74–009
Environmental Consideration in Future Energy Growth – REF. NO. EPA-600/5–73–004
Environmental Considerations for Oil Shale Development – REF. NO. EPA-650/2–74–099
Environmental Exposure System for Studying Air Pollution Damage to Materials – REF. NO. EPA-650/3–75–001
Environmental Guidelines for Development Roads in the Subarctic – REF. NO. EPA-660/3–74–009
Environmental Impact Requirements in the States: NEPA's Offspring – REF. NO. EPA-600/5–74–006
Environmental Indices for the Los Angeles Database – REF. NO. EPA-600/5–75–017
Environmental Management and Local Government – REF. NO. EPA-600/5–73–016
Environmental Management in the Malibu Watershed: Institutional Framework – REF. NO. EPA-600/5–75–018
Environmental Problem Definition for Petroleum Refineries, Synthetic Natural Gas Plants, and Liquefied Natural Gas Plants – REF. NO. EPA-600/2–75–068
Environmental Protection in Surface Mining of Coal – REF. NO. EPA-670/2–74–093
Environmental Radioactivity Laboratory Intercomparison Studies Program, 1973 – 1974 – REF. NO. EPA-680/4–73–001b
Environmental Radioactivity Laboratory Intercomparison Studies Program—1975 — Abstracted 600/9–75–001b — REF. NO. EPA-680/4–75–002b
Environmental Requirements and Pollution Tolerance of Freshwater Diatoms – REF. NO. EPA-670/4–74–005
Environmental Requirements of Selected Estuarine Ciliated Protozoa — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–74–031
Environmental Research in 1973, Annual Report – REF. NO. EPA-670/9–74–001
Environmental Research Publications – REF. NO. EPA-670/9–73–004
Environmental Research Publications 1971–1975 — Abstracted 600/9–75–001a — REF. NO. EPA-670/9–75–001
Environmental Studies of an Arctic Estuarine System — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–026
Environmental Trace Materials: Computer Coupled Radioactivation Analysis – REF. NO. EPA-600/3–75–015
Epidemiology of Chronic Respiratory Disease: A Literature Review – REF. NO. EPA-650/1–74–007
Equimolar NO_2 Absorption into Magnesia Slurry – A Pilot Feasibility Study – REF. NO. EPA-650/2–73–015
Estimating Kinetics of Combustion Especially Reactions Involving NO_x and SO_x – REF. NO. EPA-600/2–75–019
Estimating Nutrient Loadings of Lakes from Non-Point Sources – REF. NO. EPA-660/3–74–020
Estimating Water Quality Benefits – REF. NO. EPA-600/5–74–014
Estimation of Polychlorinated Biphenyls in the Presence of Dot-Type Compounds – REF. NO. EPA-670/4–74–004
Eutrophication of Lake Tahoe Emphasizing Water Quality – REF. NO. EPA-660/3–74–034
Eutrophication of Surface Waters---Lake Tahoe's Indian Creek Reservoir — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–003
Evaluation and Collaborative Study of Method for Visual Determination of Opacity of Emissions from Stationary Sources – REF. NO. EPA-650/4–75–009
Evaluation and Demonstration of the Capillary Suction Sludge Dewatering Device – REF. NO. EPA-670/2–74–017
Evaluation and Modification of Fluoride Sampling and Analytical Methods – REF. NO. EPA-650/2–73–007
Evaluation of a Computer Program for GC-MS Specific Ion Monitoring – REF. NO. EPA-660/2–74–002
Evaluation of a Continuous Colorimetric Method for Measurement of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4–75–022
Evaluation of a Microwave-Induced Plasma Spectrometer for Trace Analysis – REF. NO. EPA-660/2–73–009
Evaluation of a Particulate Scrubber on a Coal-Fired Utility Boiler – REF. NO. EPA-600/2–75–074
Evaluation of the Arsenite Procedure for the Determination of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4–74–048
Evaluation of the Bio-Disc Treatment Process for Summer Camp Application – REF. NO. EPA-670/2–73–022
Evaluation of the Correlation Spectrometer as an Area SO_2 Monitor – REF. NO. EPA-600/2–75–077
Evaluation of the Fluidized-Bed Combustion Process Volume I – Pressurized Fluidized-Bed Combustion Process Development and Evaluation – REF. NO. EPA-650/2–73–048a
Evaluation of the Fluidized-Bed Combustion Process Volume II – Fluidized Bed Boiler Combined-Cycle Power Plant Development—Volume I Appendices – REF. NO. EPA-650/2–73–048b
Evaluation of the Fluidized-Bed Combustion Process Volume III – Pressurized Fluidized-Bed Boiler Development Plant Design – REF. NO. EPA-650/2–73–048c
Evaluation of the Fluidized-Bed Combustion Process Volume IV – Fluidized-Bed Gasification Desulfurization – REF. NO. EPA-650/2–73–048d

TITLE INDEX

Evaluation of the Multiple Source Gaussian Plume Diffusion Model – Phase I – REF. NO. EPA-650/4–75–018a
Evaluation of the Multiple Source Gaussian Plume Diffusion Model – Phase II – REF. NO. EPA-650/4–75–018b
Evaluation of the Proposed Ambient Air Monitoring Equivalent and Reference Methods – REF. NO. EPA-650/4–75–014
Evaluation of the Regenerative Pressurized Fluidized-Bed Combustion Process – REF. NO. EPA-650/2–74–012
Evaluation of the Ryan's Waterproof Thermograph (Model F-30) – REF. NO. EPA-670/4–74–007
Evaluation of the Triethanolamine Procedure for the Determination of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4–74–031
Evaluation of Adjustment Assistance Program with Application for Pollution Control – REF. NO. EPA-600/5–74–029
Evaluation of Aeronetic Two-Phase Jet Scrubber – REF. NO. EPA-650/2–74–129
Evaluation of Alternative Methods For Financing Municipal Waste Treatment Works – REF. NO. EPA-600/5–75–001
Evaluation of Centrifield Scrubber – REF. NO. EPA-650/2–74–129a
Evaluation of Drainage for Salinity Control in Grand Valley – REF. NO. EPA-660/2–74–084
Evaluation of Effects of NO, CO_2 and Sampling Flow Rate on Arsenite Procedure for Measurement of NO_2 in Ambient Air – REF. NO. EPA-650/4–75–019
Evaluation of Equations for Designing Ammoniacal Scrubbers to Remove Sulfur Oxides from Waste Gas – REF. NO. EPA-650/2–74–035
Evaluation of Feasibility and Economic Implication of Pricing Mechanisms in Solid Waste Management — Abstracted 600/9–75–001a — – REF. NO. EPA-670/5–75–001
Evaluation of Flame Emission Determination of Phosphorus in Water – REF. NO. EPA-660/2–73–007
Evaluation of Gas Phase Titration Technique as Used for Calibration of Nitrogen Dioxide Chemiluminescence Analyzers – REF. NO. EPA-650/4–75–021
Evaluation of Hazardous Wastes Emplacement in Mined Openings – REF. NO. EPA-600/2–75–040
Evaluation of Health Hazards Associated With Solid Waste Sewage Sludge Mixtures — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–023
Evaluation of Instrumentation for Monitoring Total Mercury Emissions from Stationary Sources – REF. NO. EPA-650/2–74–039
Evaluation of Irrigation Scheduling for Salinity Control in Grand Valley – REF. NO. EPA-660/2–74–052
Evaluation of Low-Sulfur Western Coal Characteristics, Utilization, and Combustion Experience — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–046
Evaluation of Marketable Effluent Permit Systems – REF. NO. EPA-600/5–74–030
Evaluation of Mathematical Models for Temperature Prediction in Deep Reservoirs — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–038
Evaluation of MTF for Testing Hazardous Material Spill Control Equipment — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–74–073
Evaluation of National Boiler Inventory – REF. NO. EPA-600/2–75–067
Evaluation of Odor Measurement Techniques Volume I – Animal Rendering Industry – REF. NO. EPA-650/2–74–008a
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification; Section I: Synthane Process – REF. NO. EPA-650/2–74–009b
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Liquefaction: Section 2. SRC Process – REF. NO. EPA-650/2–74–009f
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification: Section 5. BI-GAS Process – REF. NO. EPA-650/2–74–009g
Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 6. HYGAS Process – REF. NO. EPA-650/2–74–009h
Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 7. U-Gas Process – REF. NO. EPA-650/2–74–009i
Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Gasification: Section 8. Winkler Process – REF. NO. EPA-650/2–74–009j
Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Coal Treatment: Section 1. Meyers Process – REF. NO. EPA-650/2–74–009k
Evaluation of Pollution Control in Fossil Fuel Conversion Processes (Analytical Test Plan) – REF. NO. EPA-650/2–74–0091
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification Section I: Koppers-Totzek Process – REF. NO. EPA-650/2–74–009a
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Gasification; Section I: CO2 Acceptor Process – REF. NO. EPA-650/2–74–009d
Evaluation of Pollution Control in Fossil Fuel Conversion Processes Liquefaction: Section I. COED Process – REF. NO. EPA-650/2–74–009e
Evaluation of Pollution Control in Fossil Fuel Conversion Processess Gasification; Section I; Lurgi Process – REF. NO. EPA-650/2–74–009c
Evaluation of Polymeric Clarification of Meat-Packing and Domestic Wastewaters – REF. NO. EPA-660/2–74–020
Evaluation of Prechamber Spark Ignition Engine Concepts — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–023
Evaluation of R&D Investment Alternatives for SO_x Air Pollution Control Processes, Part 2 – REF. NO. EPA-650/2–74–098a
Evaluation of R&D Investment Alternatives for SO_x Air Pollution Control Processes – REF. NO. EPA-650/2–74–098
Evaluation of Semipermeable Membranes for Concentration of Organic Contaminants in Drinking Water — Abstracted 600/9–75–001c - — REF. NO. EPA-670/1–75–001
Evaluation of Stationary Source Particulate Measurement Methods – Volume I, Portland Cement Plants – REF. NO. EPA-650/2–75–051a
Evaluation of Sulfur Dioxide Emission Control Options for Iowa Power Boilers – REF. NO. EPA-650/2–74–127
Evaluation of Systems for Control of Emissions from Rocket Motors – Phase I – REF. NO. EPA-600/2–75–021a
Evaluation of Tailings Ponds Sealants – REF. NO. EPA-660/2–74–065
Evaluation of Three Combined Sewage Overflow Treatment Alternatives — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–079
Evaluation of TGS-ANSA Procedure for Determination of Nitrogen Dioxide in Ambient Air – REF. NO. EPA-650/4–74–047
Excerpts from Control of Infiltration and Inflow into Sewer Systems and Prevention and Correction of Excessive Infiltration and Inflow into Sewer Systems – REF. NO. EPA-670/9–74–004
Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control – REF. NO. EPA-660/2–74–073

TITLE INDEX

Experimental High Ash Papermill Sludge Landfill – First Annual Report — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–076a
Experimental High Ash Papermill Sludge Landfill – Second Annual Report — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–076b
Explicit Calibration of the Pills II System – REF. NO. EPA-660/2–73–011
Exploratory Study of Factors Affecting Aerosol Formation – REF. NO. EPA-650/3–75–002
Extended Aeration Sewage Treatment in Cold Climate — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–74–070
EPA Alkali Scrubbing Test Facility: Limestone Wet Scrubbing Test Result – REF. NO. EPA-650/2–74–010
EPA Alkali Scrubbing Test Facility: Sodium Carbonate and Limestone Test Results – REF. NO. EPA-650/2–73–013
EPA Alkali Scrubbing Test Facility: Advanced Program (First Progress Report) – REF. NO. EPA-600/2–75–050
EPA Alkali Scrubbing Test Facility: Summary of Testing Through October 1974 — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–047
EPA Fine Particle Scrubber Symposium (San Diego, 5/28–30/74) – REF. NO. EPA-650/2–74–112
EPA Program Status Report – Synthetic Fuels Program – REF. NO. EPA-600/2–75–070
Fabric Boom Concept for Containment and Collection of Floating Oil – REF. NO. EPA-670/2–73–069
Fabric Filter Cleaning Studies — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–009
Fabrication and Installation of the Stationary Source Simulator – REF. NO. EPA-650/2–75–015
Fabrication of Monitoring System for Determining Mass and Composition of Aerosol as a Function of Time – REF. NO. EPA-650/2–75–048
Fabrication of Single Cell Protein From Cellulosic Wastes — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–032
Fate and Effects of Trace Elements in Sewage Sludge When Applied to Agricultural Lands: A Literature Review Study – REF. NO. EPA-670/2–74–005
Fate of Select Pesticides in the Aquatic Environment – REF. NO. EPA-660/3–74–025
Fate of Trace Constituents of Coal During Gasification – REF. NO. EPA-650/2–73–004
Feasibility of a CW Lidar Technique for Measurement of Plume Opacity – REF. NO. EPA-650/2–73–037
Feasibility of Emission Standards Based on Particle Size – REF. NO. EPA-600/5–74–007
Feasibility of Flux Force/Condensation Scrubbing for Fine Particulate Collection – REF. NO. EPA-650/2–73–036
Feasibility of Hydraulic Transport and Treatment of Ground Household Refuse Through Sewers – REF. NO. EPA-670/2–74–019
Feasibility of Hydraulic Transport of Ground Household Refuse Through Sewer Appurtenances – REF. NO. EPA-670/2–74–021
Feasibility of Metrac System for Regional Air Pollution Study – REF. NO. EPA-650/4–74–051
Feasibility of Overflow Overland Flow Treatment of Feedlot Runoff – REF. NO. EPA-660/2–74–062
Feasibility of Overland Flow for Treatment of Raw Domestic Wastewater – REF. NO. EPA-660/2–74–087
Feasibility of 5 gpm Dynactor/Flash Magnetic Separator System to Treat Spilled Hazardous Materials — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–004
Feasibility Study of a New Surface Mining Method "Longwall Stripping" – REF. NO. EPA-670/2–74–002
Feasibility Study of the Use of Resonance Scattering for the Remote Detection of SO_2 – REF. NO. EPA-650/2–74–020
Feasibility Study of Use of Molten Salt Technology for Pyrolysis of Solid Waste – REF. NO. EPA-670/2–75–014
Federal Aircraft Noise Research, Development, and Demonstration Programs: FY 73 – FY 75 — Abstracted 600/9–75–001b — REF. NO. EPA-600/2–75–003
Federal Machinery Noise Research, Development and Demonstration: FY 73–75 – REF. NO. EPA-600/2–75–008
Federal Noise Effects Research: FY 73 – FY 75 — Abstracted 600/9–75–001a — REF. NO. EPA-600/1–75–001
Federal Surface Vehicle Noise Research, Development, and Demonstration Program: FY 73 – FY 75 — Abstracted 600/9–75–001a — REF. NO. EPA-600/2–75–002
Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus – REF. NO. EPA-670/2–73–103
Field Evaluation of SO_2 Monitoring Systems Applied to H_2SO_4 Plant Emissions – Volume I – REF. NO. EPA-650/2–75–053a
Field Evaluation of SO_2 Monitoring Systems Applied to H_2SO_4 Plant Emissions – Volume II – REF. NO. EPA-650/2–75–053b
Field Measurements of Particle Size Distribution Sizing Devices – REF. NO. EPA-650/2–73–035
Field Testing and Evaluation of Methods for Measuring Visibility – REF. NO. EPA-650/2–75–039
Field Testing: Application of Combustion Modifications to Control NO_x Emissions for Utility Boilers – REF. NO. EPA-650/2–74–066
Field Testing: Application of Combustion Modifications to Control Pollutant Emissions from Industrial Boilers – Phase I – REF. NO. EPA-650/2–74–078a
Final Report Deep Water Pilot Plant Treatability Study – REF. NO. EPA-660/2–73–038
Financial Incentives and Pollution Control: A Case Study — Abstracted 600/9–75–001b — REF. NO. EPA-600/5–75–007
Fine Particle Scrubber Performance Tests – REF. NO. EPA-650/2–74–093
First Annual Progress Report on a Study of Corrosion in Municipal Incinerators – REF. NO. EPA-670/2–73–032
First Annual Report: Routing of Solid Waste Collection Vehicles and Appendix B – Optimal Routing of Solid Waste Collection Vehicles — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–035b
First Annual Report: Routing of Solid Waste Collection Vehicles and Appendix A – A Linear Programming Approach for the Traveling Salesman Problem — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–035a
First Annual Reports of EPA Grants Funded for IFYGL – REF. NO. EPA-660/3–73–021
Fisheries and Energy Production: A Symposium — Abstracted 600/9–75–001a — REF. NO. EPA-600/3–75–001
Flame Characterization Probes – REF. NO. EPA-650/2–74–023
Flow Establishment and Initial Entrainment of Heated Water Surface Jets — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–014
Fluidized Bed Combustion Process Evaluation (Phase I – Residual Oil Gasification/Desulfurization Demonstration at Atmospheric Pressure) Volume I – Summary — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–027a
Fluidized Bed Combustion Process Evaluation (Phase I – Residual Oil Gasification/Desulfurization Demonstration at Atmospheric Pressure) Volume II – Appendices — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–027b
Fluidized Bed Combustion Process Evaluation Phase II – Pressurized Fluidized Bed Coal Combustion Development – REF. NO. EPA-650/2–75–027c
Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants – REF. NO. EPA-650/1–75–004

TITLE INDEX

Fluoride Emissions from Phosphoric Acid Plant Gypsum Ponds – REF. NO. EPA-650/2–74–095
Forecast of the Effects of Air and Water Controls of Solid Waste Generation — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–095b
Formation of Aerosols in a Photochemical Fast Row Reactor – REF. NO. EPA-650/3–75–004
Formation of Halogenated Organics By Chlorination of Water Supplies — Abstracted 600/9–75–001b — REF. NO. EPA-600/1–75–002
Fortran Programs for Analyzing Collaborative Test Date: Part I – General Statistics — Abstracted 600/9–75–001a — REF. NO. EPA-670/4–75–004a
Fortran Programs for Analyzing Collaborative Test Date: Part II – Scatter Plots — Abstracted 600/9–75–001a — REF. NO. EPA-670/4–75–004b
Fractional Efficiency of a Utility Boiler Baghouse – Nuclea Generating Plant – REF. NO. EPA-600/2–75–013a
Fuel Gas Environmental Impact: Phase Report – REF. NO. EPA-600/2–75–078
Fuels Technology: A State-of-the-Art Review — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–034
Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume 1 – REF. NO. EPA-650/2–73–019a
Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume II – Appendices A through H – REF. NO. EPA-650/2–73–019b
Full-Scale Desulfurization of Stack Gas by Dry Limestone Injection: Volume III – Appendices I through L – REF. NO. EPA-650/2–73–019c
Future Dredging Quantities in the Great Lakes — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–74–029
Gas Requirements to Pressurize Abandoned Deep Mines – REF. NO. EPA-670/2–73–054
Gasification of Fossil Fuels Under Oxidative, Reductive, and Pyrolytic Conditions – REF. NO. EPA-650/2–73–042
Granite Industry Wastewater Treatment – REF. NO. EPA-660/2–74–040
Great Lakes Water Quality — Status of Pertinent EPA Research — Abstracted 600/9–75–001a — REF. NO. EPA-660/9–74–002
Ground Water Contamination in the Northeast States – REF. NO. EPA-660/2–74–056
Ground Water Pollution Features of Federal and State Laws and Regulations – REF. NO. EPA-600/4–73–001a
Ground-Water Pollution Problems in the Northwestern United States — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–75–018
Guide for the Evaluation of Atmospheric Analyzers – REF. NO. EPA-650/4–74–014
Guide to Models in Governmental Planning and Operations – REF. NO. EPA-600/5–74–008
Guidelines for the Disposal of Small Quantities of Unused Pesticide — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–057
Guidelines for Determining Performance Characteristics of Altimated Methods for Measuring Nitrogen Dioxide and Hydrocarbons, Corrected for Methane in Ambient Air – REF. NO. EPA-650/4–74–018
Guidelines for Development of a Quality Assurance Program: Volume XII – Determination of Phosphorus in Gasoline – REF. NO. EPA-650/4–74–0051
Guidelines for Development of a Quality Assurance Program: Volume XIII – Test for Lead in Gasoline by Atomic Absorption Spectrometry – REF. NO. EPA-650/4–74–005m
Guidelines for Development of a Quality Assurance Program: Volume I-Determination of Stack Gas Velocity and Volumetric Flow Rate (Type-S Pitot Tube) – REF. NO. EPA-650/4–74–005a
Guidelines for Development of a Quality Assurance Program: Volume II – Gas Analysis for Carbon Dioxide, Excess Air, and Dry Molecular Weight – REF. NO. EPA-650/4–74–005b
Guidelines for Development of a Quality Assurance Program: Volume III – Determination of Moisture in Stack Gases – REF. NO. EPA-650/4–74–005c
Guidelines for Development of a Quality Assurance Program: Volume IV – Determination of Particulate Emissions from Stationary Sources – REF. NO. EPA-650/4–74–005d
Guidelines for Development of a Quality Assurance Program: Volume VIII – Determination of CO Emissions from Stationary Sources by NDIR Spectrometry – REF. NO. EPA-650/4–74–005h
Guidelines for Quality Assurance Programs for Mobile Source Emissions Measurement Systems: Phase I, Light-Duty GasolinePowered Vehicles – Quality Assurance Guidelines – REF. NO. EPA-650/4–75–024a
Guidelines for Quality Assurance Programs for Mobile Source Emissions Measurement Systems: Phase I, Light-Duty GasolinePowered Vehicles – Test Procedures – REF. NO. EPA-650/4–75–024b
Guidelines for Residential Oil-Burner Adjustments – REF. NO. EPA-600/2–75–069a
Handbook for Evaluating Water Bacteriology — Abstracted 600/9–75–001c — REF. NO. EPA-670/9–75–006
Handbook of Radiochemical Analytical Methods — Abstracted 600/9–75–001a — REF. NO. EPA-680/4–75–001
Hatfield Township, Pennsylvania, Advanced Waste Treatment Plant — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–030
Hazardous Emission Characterization of Utility Boilers – REF. NO. EPA-650/2–75–066
Haze Formation: It's Nature and Origin – 1973 – REF. NO. EPA-650/3–74–002
Haze Formation: Its Nature and Origin – 1975 – REF. NO. EPA-650/3–75–010
Health and Annoyance Impact of Odor Pollution – REF. NO. EPA-650/1–75–001
Health Consequences of Sulfur Oxides: A Report from CHESS,1970–1971 – REF. NO. EPA-650/1–74–004
Heavy Metal Accumulation in Soil and Vegetation From Smelter Emissions – REF. NO. EPA-660/3–74–012
Helical Bend Combined Sewer Overflow Regulator – REF. NO. EPA-600/2–75–062
Herbicide Runoff from Four Coastal Plain Soil Types – REF. NO. EPA-660/2–74–017
High-Temperature Vortex Incinerator — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–025
Highway Air Pollution Measurement Program Using Sulfur Hexafluoride Tracer Gas – REF. NO. EPA-650/4–74–043
Hospital Solid Waste Disposal in Community Facilities – REF. NO. EPA-670/2–73–048
Hospital Solid Waste: An Annotated Bibliography – REF. NO. EPA-670/5–74–001
Hydrocarbon Measurement Discrepancies Among Various Analyzers Using Flame-Ionization Detectors – REF. NO. EPA-600/4–75–010
Hydrogen Peroxide Cures Filamentous Growth in Activated Sludge – REF. NO. EPA-670/2–73–033
Hypochlorination of Pollution Stormwater Pumpage at New Orleans – REF. NO. EPA-670/2–73–067
Hypolimnetic Flow Regimes in Lakes and Impoundments – REF. NO. EPA-660/2–74–053
Hypolimnion Aeration With Commercial Oxygen – Volume I – Dynamics of Bubble Plume – REF. NO. EPA-660/2–73–025a
Hypolimnion Aeration With Commercial Oxygen – Volume II – Bubble Plume Gas Transfer – REF. NO. EPA-660/2–73–025b

TITLE INDEX

Identification and Assessment of Asbestos Emissions from Incidental Sources of Asbestos – REF. NO. EPA-650/2-74-087
Identification and Characterization of the Use of Mixed Conventional and Waste Fuels — Abstracted 600/9-75-001c — REF. NO. EPA-650/2-75-017
Identification of Regenerable Metal Oxide SO_2 Sorbents for Fluidized Coal Combustion – REF. NO. EPA-650/2-75-065
Impact of the Use of Microorganisms on the Aquatic Environment — Abstracted 600/9-75-001a — REF. NO. EPA-660/3-75-001
Impact of Hydrologic Modifications on Water Quality – REF. NO. EPA-600/2-75-007
Implementation of a Computer Based Information System for Mass Spectral Identification – REF. NO. EPA-660/2-74-048
Improved Air Pollution Control for a Kraft Recovery Boiler: Recovery Boiler No. 4 – REF. NO. EPA-650/2-74-071b
Improved Air Pollution Control for Kraft Recovery Boiler: Modified Recovery Boiler No. 3 – REF. NO. EPA-650/2-74-071a
Improved Liquid-Solids Separation By An Aluminum Compound in Activated Sludge Treatment – REF. NO. EPA-600/2-75-039
Improvement of Instrumentation and Methodology for Collection and Analysis of Mercury – REF. NO. EPA-650/2-75-028
Improvement of Treatment of Food Industry Waste – REF. NO. EPA-660/2-74-035
Improving the Statistical Reliability of Stream Heat Assimilation Prediction — Abstracted 600/9-75-001c — REF. NO. EPA-660/3-75-037
In-Stack Transmissometer Evaluation and Application to Particulate Opacity Measurement — Abstracted 600/9-75-001c — REF. NO. EPA-650/2-75-008
In-Stack Transmissometer Measurement of Particulate Opacity and Mass Concentration — Abstracted 600/9-75-001b — REF. NO. EPA-650/2-74-120
Incineration of Bulky Refuse Without Prior Shredding – REF. NO. EPA-670/2-73-023
Incineration of Plastics Found in Municipal Wastes – REF. NO. EPA-670/2-73-087
Incinerator Overfire Mixing Demonstration – REF. NO. EPA-600/2-75-016
Indexed Bibliography of Office of Research and Development Reports – Updated to January 1975 — Abstracted 600/9-75-001a — REF. NO. EPA-600/9-74-002
Indexed Bibliography of Office of Research and Development Reports – REF. NO. EPA-600/9-74-001
Indigester Black Liquor Oxidation for Odor Control in Kraft Pulping – REF. NO. EPA-650/2-74-005
Industrial Chemicals Solid Waste Generation — The Significance of Process Resource Recovery, and Improved Disposal – REF. NO. EPA-670/2-74-078
Industrial Solid Waste Classification Systems — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-75-024
Industrial Water Softener Waste Brine Reclamation – REF. NO. EPA-660/2-74-007
Influence of Aerodynamic Phenomena on Formation in Combustion – Volume I. Experimental Results – REF. NO. EPA-650/2-75-061a
Influence of Fiber Characteristics on Particulate Filtration — Abstracted 600/9-75-001c — REF. NO. EPA-650/2-75-002
Influence of Fly Ash Compositional Factors on Electrical Volume Resistivity – REF. NO. EPA-650/2-74-074
Influences of Wastewater Management on Land Use: Tahoe Basin 1950–1972 – REF. NO. EPA-600/5-74-019
Information Resource: Final Report Water Pollution Control in Water Utilities – REF. NO. EPA-660/2-73-020
Infrared Dry Caustic vs. Wet Caustic Peeling of White Potatoes – REF. NO. EPA-660/2-74-088
Infrared Fourier Transform Spectrometry of Gas Chromatography Effluents – REF. NO. EPA-660/2-73-034
Infrared Gas Filter Correlation Instrument for In-Situ Measurement of Gaseous Pollutants – REF. NO. EPA-650/2-74-094
Infrared Sensor for the Remote Monitoring of SO_2 – REF. NO. EPA-650/2-75-041
Infrared Spectral Sensor for Refuse Sorting – REF. NO. EPA-670/2-74-031
Inputs of Phosphorus from Precipitation to Lake Michigan – REF. NO. EPA-600/3-75-005
Instream Aeration to Control Dissolved Sulfide in Sanitary Sewers – REF. NO. EPA-670/2-73-024
Instrument for Simultaneous Monitoring NO_x and SO_2 in Stationary Sources – REF. NO. EPA-650/2-73-027
Instrument to Monitor CH_4, CO and CO_2 in Auto Exhaust – REF. NO. EPA-650/2-73-030
Instrumental Analyses for Wet Scrubbing Processes – REF. NO. EPA-650/2-74-064
Instrumentation and Methodology for the Assay of Polynuclear Aromatic Hydrocarbons – REF. NO. EPA-650/2-74-069
Integrated Multi-media Pollution Model – REF. NO. EPA-600/5-74-020
Interactions of Stack Gas Sulfur and Nitrogen Oxides on Dry Berkau – REF. NO. EPA-650/2-73-029
Interactions of Various Air Pollutants on Causation of Pulmonary Disease – REF. NO. EPA-650/1-73-002
Interfacing a 24-Point Analog Recorder to a Computer Controlled Telemetry Line — Abstracted 600/9-75-001a — REF. NO. EPA-670/4-75-002
Interferometric Instrumentation For Particle Size Analysis – REF. NO. EPA-650/2-73-034
Interim Report of Task Force on Phosphate Removal Sludges — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-75-013
Intermedia Aspects of Air and Water Pollution Control – REF. NO. EPA-600/5-73-003
Interpretative Compilation of EPA Studies Related to Coal Quality and Cleanability – REF. NO. EPA-650/2-74-030
Invariant Modeling of Turbulence and Diffusion in the Planetary Boundary Layer – REF. NO. EPA-650/4-74-035
Investigation of the Effects of Carbon Monoxide on Humans in the Driving Task – REF. NO. EPA-650/1-73-003
Investigation of the Orion Research Cyanide Monitor — Abstracted 600/9-75-001b — REF. NO. EPA-670/4-75-005
Investigation of Corrosion Deposition Phenomena on Gas Turbine Blades – REF. NO. EPA-670/2-73-006
Investigation of Extractive Sampling Interface Parameters – REF. NO. EPA-650/2-74-089
Investigation of Particulate Emission from Oil-Fired Residential Heating Units – REF. NO. EPA-650/2-74-026
Investigation of Particulate Matter Monitoring Using Contact Electrification – REF. NO. EPA-650/2-75-043
Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection – REF. NO. EPA-670/4-73-002
Investigation of Surface Combustion Concepts for NO_x Control in Utility Boilers and Stationary Gas Turbines – REF. NO. EPA-650/2-73-014
Investigation of Surface Films – Chesapeake Bay Entrance – REF. NO. EPA-670/2-73-099
Ion Exchange Process for Recovery of Chromate from Pigment Manufacturing – REF. NO. EPA-670/2-74-044
Ion-Selective Membranes Electrodes for Water Pollution Water Monitoring – REF. NO. EPA-660/2-74-079

TITLE INDEX

Iron Foundry Cupola Recuperative Emission Control Demonstration — Design Manual – REF. NO. EPA-650/2-74-004
Isolating Organic Water Pollutants: XAD Resins, Urethane Foams, Solvent Extraction — Abstracted 600/9-75-001c — REF. NO. EPA-660/4-75-003
Isolation of Hayfever Antigens from Short Ragweed Pollen – REF. NO. EPA-650/2-74-044
Johns-Manville CHEAF Evaluation – REF. NO. EPA-650/2-75-058a
Joint Construction Sediment Control Project – REF. NO. EPA-660/2-73-035
Kinetic Mechanisms of Methane/Air Combustion with Pollutant Formation – REF. NO. EPA-650/2-74-045
Kinetic Mechanisms Governing the Fate of Chemically Bound Sulfur and Nitrogen in Combustion – REF. NO. EPA-650/2-74-017
Kinetic Model for Orthophosphate Reactions in Mineral Soils — Abstracted 600/9-75-001c — REF. NO. EPA-660/2-75-022
Laboratory and Field Evaluations of EPA Methods 2, 6 and 7 – REF. NO. EPA-650/4-74-039
Laboratory and Numerical Simulation of Plume Dispersion in Stably Stratified Flow Over Complex Terrain – REF. NO. EPA-650/4-74-044
Laboratory Analyses of Atmospheric Hydrocarbon – California South Coast Air Basin (Los Angeles Air Quality Control Region) August – November 1973 – REF. NO. EPA-650/4-74-052
Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants – REF. NO. EPA-600/2-75-061
Laboratory Ozonation of Municipal Wastewater – REF. NO. EPA-670/2-73-075
Laboratory Study of Continous Electro-oxidation of Dilute Cuanide Waste – REF. NO. EPA-670/2-74-059
Laboratory Study of Self-Sealing Limestone Plugs for Mine Openings – REF. NO. EPA-670/2-73-081
Lake Classification — A Trophic Characterization of Wisconsin Lakes — Abstracted 600/9-75-001c — REF. NO. EPA-660/3-75-033
Land Application of Sludge Effluent and Sludges: Selected Abstracts – REF. NO. EPA-660/2-74-042
Land Use and the Environment: An Anthology of Readings – REF. NO. EPA-600/5-75-009
Land Use Decision Methodology for Environmental Control — Abstracted 600/9-75-001b — REF. NO. EPA 600/5-75-008
Land Use Forms and the Environment – An Executive Summary — Abstracted 600/9-75-001a — REF. NO. EPA-600/5-75-003
Lead: Environmental Sources and Red Cell Toxicity in Urban Children – REF. NO. EPA-650/1-75-003
Lidar Studies of Stack Plumes in Rural and Urban Environments – REF. NO. EPA-650/4-73-002
Lime Disinfection of Sewage Bacteria at Low Temperature – REF. NO. EPA-660/2-73-017
Lime Stabilized Sludge: Its Stability and Effect on Agricultural Land — Abstracted 600/9-75-001a — REF. NO. EPA-670/2-75-012
Lime Use in Wastewater Treatment: Design and Cost Data – REF. NO. EPA-600/2-75-038
Lime/Limestone Scrubbing for SO_2 and Particulate Removal in a Marble Bed Scrubber – REF. NO. EPA-650/2-75-052
Lime/Limestone Scrubbing in a Pilot Dustraxter – Key West – REF. NO. EPA-650/2-74-077
Limestone and Limestone-Lime Neutralization of Acid Mine Drainage – REF. NO. EPA-670/2-74-051
Limited SO_2 and NOx Measurements in St. Louis, 1974: Volume I – Plume Tracking by Correlation Spectroscopy – REF. NO. EPA-650/2-75-005a
Limited SO_2 and NOx Measurements in St. Louis, 1974: Volume II, Longline Ambient SO_2 Monitor and Variability of SO_2 and NOx – REF. NO. EPA-650/2-75-005b
Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons—Phase One – REF. NO. EPA-600/3-75-009
Limnological Studies of Flat-head, Montana: A Status Report – REF. NO. EPA-660/3-74-023
Liquid Aerobic Composting of Cattle Wastes and Evaluation of Byproducts – REF. NO. EPA-660/2-74-034
Literature Review and Bibliography of Mammalian Toxicology of Select Munitions — Abstracted 600/9-75-001c — REF. NO. EPA-670/9-75-008
Literature Search and Analysis of Information Regarding Sources, Uses, Production, Consumption, Reported Medical Cases and Toxicology of Platinum and Palladium – REF. NO. EPA-650/1-74-008
Literature Survey of Instrumental Measurements of Biochemical Oxygen Demand for Control Application, 1960–1963 – REF. NO. EPA-670/4-74-001
Livestock and the Environment – A Bibliography with Abstracts – REF. NO. EPA-660/2-74-024
Livestock and the Environment—A Bibliography with Abstracts, Volume II — Abstracted 600/9-75-001a — REF. NO. EPA-660/2-75-003
Lone Star Steel Steam-Hydro Air Cleaning System Evaluation – REF. NO. EPA-650/2-74-028
Losses of Fertilizers and Pesticides from Claypan Soils – REF. NO. EPA-660/2-74-068
Low Cost Compact X-Ray Flourescent Analyzer for On-Site Measurement of Trace Element in Airborne Particulate Emission – REF. NO. EPA-600/4-75-002
Low Winter Dissolved Oxygen in Some Alaskan Rivers – REF. NO. EPA-660/3-74-008
Magnesia Scrubbing Process as Applied to an Oil-Fired Power Plant – REF. NO. EPA-600/2-75-057
Management Practices Affecting Quality and Quantity of Irrigation Return Flow — Abstracted 600/9-75-001a — REF. NO. EPA-660/2-75-005
Managing the Environment – REF. NO. EPA-600/5-73-010
Manual for Deicer Chemical Application Practices – REF. NO. EPA-670/2-74-045
Manual for Deicing Chemical Storage and Handling – REF. NO. EPA-670/2-74-033
Manual Methods for Sampling and Analysis of Particulate Emissions From Municipal Incinerators – REF. NO. EPA-650/2-73-023
Marine Algal Assay Procedure Bottle Test — Abstracted 600/9-75-001a — REF. NO. EPA-660/3-75-008
Marketing H_2SO_4 from SO_2 Abatement Sources— The TVA Hypothesis – REF. NO. EPA-650/2-73-051
Mathematical Analysis of the Kinetics of Viral Inactivation – REF. NO. EPA-670/2-74-067
Mathematical Model for Aerobic Digestion – REF. NO. EPA-670/2-73-045
Mathematical Model for Barged Ocean Disposal of Wastes – REF. NO. EPA-660/2-73-029
Mathematical Model for Post Aeration – REF. NO. EPA-670/2-73-044
Mathematical Model of Electrostatic Precipitation — Abstracted 600/9-75-001c — REF. NO. EPA-650/2-75-037
Mathematical Modeling of Phytoplankton in Lake Ontario — Abstracted 600/9-75-001a — REF. NO. EPA-660/3-75-005
Mathematical Modeling of Simulated Photochemical Smog – REF. NO. EPA-650/4-75-026

TITLE INDEX

Mathematical Simulation of an Adsorber for Pollutant Removal — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–110
Mathematical Simulation of Atmospheric Photochemical Reactions: Model Development, Validation, and Application – REF. NO. EPA-650/4–74–011
Mathematical Simulation of Smog Chamber Photo-Chemical Experiments – REF. NO. EPA-650/4–74–040
Measurement and Characterization of Particles in Wet Scrubbing Process for SO_x Control – REF. NO. EPA-650/2–73–024
Measurement of the Opacity and Mass Concentration of Particulate Emissions by Transmissometry – REF. NO. EPA-650/2–74–128
Measurement of Entrained Liquid Levels in Effluent Gases from Scrubber Demisters – REF. NO. EPA-650/2–74–050
Measurement of Residual Chlorine Levels in Cooling Water — Amperometric Method – REF. NO. EPA-660/2–73–039
Measurement of Sulfur Dioxide, Particulate, and Trace Elements in Copper Smelter Converter and Roaster/Reverberatory Gas Streams – REF. NO. EPA-650/2–74–111
Measurements of Active Biomass Concentrations in Biological Waste Treatment Processes — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–029
Measures of Effectiveness for Refuse Storage, Collection, and Transportation Practices – REF. NO. EPA-670/2–74–082
Measuring External Effects of Solid Waste Management — Abstracted 600/9–75–001b — REF. NO. EPA-600/5–75–010
Mercury in the Aquatic Systems: Metholation, OxidationReduction; in Bio Accumulation – REF. NO. EPA-660/3–74–021
Mercury in the Environment – REF. NO. EPA-660/2–73–008
Mercury Recovery from Contaminated Waste Waters and Sludges – REF. NO. EPA-660/2–74–086
Mesoscale Windfield Analysis of Los Angeles Basin – REF. NO. EPA-650/4–73–001
Metabolism of Carbamate Insecticides – REF. NO. EPA-650/1–74–002
Metabolism of Mercury Compounds in Microorganisms – REF. NO. EPA-600/3–75–007
Metallic Recovery From Waste Waters Utilizing Cementation – REF. NO. EPA-670/2–74–008
Metallurgical Upgrading of Automotive Scrap Steel – REF. NO. EPA-670/2–73–091
Meteorological Episodes of Slowest Dilution in Contiguous United States – REF. NO. EPA-650/4–74–002
Method for Evaluating SO_2 Abatement Strategies – REF. NO. EPA-600/2–75–045
Method for Obtaining Replicate Particulate Samples from Stationary Sources – REF. NO. EPA-650/4–75–025
Methodology for Assignment of a Hydrocarbon Photochemical Reactivity Index for Emissions From Mobile Sources – REF. NO. EPA-650/2–75–025
Methodology for Determining the Effects of Fuels and Additives on Atmospheric Visibility – REF. NO. EPA-650/2–75–068
Methodology for Determining Fuel Effects on Diesel Particulate Emissions – REF. NO. EPA-650/2–75–056
Methodology for Treating Large Localized Emissions of Reactive Pollutants – REF. NO. EPA-650/4–74–006
Methods for Acute Toxicity Tests with Fish, Macroinvertebrates, and Amphibians — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–009
Methods for Improvement of Trickling Filter Plant Performance, Part I – Mechanical and Biological Optima – REF. NO. EPA-670/2–73–047a
Methods for Rapid and Accurate Measurement of Nitrate and Sulfate in Atmospheric Particulates – REF. NO. EPA-650/2–73–050
Methods to Treat, Control and Monitor Spilled Hazardous Materials — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–042
Methylation of Mercury in a Terrestrial Environment – REF. NO. EPA-600/3–75–014
Microbial Degradation and Accumulation of Pesticides in Aquatic Systems – REF. NO. EPA-660/3–75–007
Microbial-Malathion Interaction in Artificial Salt-Marsh Ecosystems: Effects and Degradation — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–035
Microbiological Production of Geosmin – REF. NO. EPA-670/2–74–094
Microbiology of Sewage Sludge Disposal in Soil – REF. NO. EPA-670/2–74–074
Microstraining and Disinfection of Combined Sewer Overflows – Phase III – REF. NO. EPA-670/2–74–049
Mine Drainage Pollution Control Demonstration Grant Procedures and Requirement — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–003
Mine Spoil Potentials for Soil and Water Quality – REF. NO. EPA-670/2–74–070
Minimum Standards For Quality of Life — Abstracted 600/9–75–001c — REF. NO. EPA-600/5–75–012
Mobile Fabric Filter System Design and Field Test Results – REF. NO. EPA-650/2–75–059
Model Cities – REF. NO. EPA-600/5–74–027
Model for Optimal Design and Operation of Solid Waste Transfer Stations – REF. NO. EPA-670/5–74–009
Model Verification – Aircraft Emissions Impact on Air Quality – REF. NO. EPA-650/4–74–049
Modeling Dynamics of Biological and Chemical Components of Aquatic Ecosystems — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–012
Modifications to the Executive Computer Program for Steady-State Simulation of Wastewater Treatment Facilities – REF. NO. EPA-670/2–74–066
Modular Wastewater Treatment System Demonstration For the Textile Maintenance Industry – REF. NO. EPA-660/2–73–037
Molecular Modulation Spectrometry for Observation of Free Radicals – REF. NO. EPA-650/4–74–004
Molecular Sieve Control Process in Sulfuric Acid Plants – REF. NO. EPA-600/2–75–066
Molybdenum – A Toxicological Appraisal – REF. NO. EPA-600/1–75–004
Monitoring Disposal-Well Systems — Abstracted 600/9–75–001c — REF. NO. EPA-680/4–75–008
Multi-Purpose Combined Sewer Overflow Treatment Facility, Mount Clemens, Michigan — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–010
Multielement Analyses of Environmental Samples by Spark Source Mass Spectrometry – REF. NO. EPA-660/2–74–001
Municipal Waste Disposal by Shipborne Incineration and Sea-Disposal of Residues – REF. NO. EPA-670/2–73–017
Municipal Water Pollution Control Abstracts for 1974 — Abstracted 600/9–75–001b — REF. NO. EPA-600/2–75–005
Negatively Buoyant Jets in a Cross Flow – REF. NO. EPA-660/2–73–012
New Membranes for Reverse Osmosis Treatment of Metal Finishing Effluents – REF. NO. EPA-660/2–73–033
New Microbial Indicators of Wastewater Chlorination Efficiency – REF. NO. EPA-670/2–73–082

TITLE INDEX

News of Environmental Research in Cincinnati – May-December, 1973 – REF. NO. EPA-670/9–74–002
News of Environmental Research in Cincinnati, January – December 1974 — Abstracted 600/9–75–001a — REF. NO. EPA-670/9–75–003
Nitrate and Nitrite Volatilization By Microorganisms in Laboratory Experiments – REF. NO. EPA-660/2–73–002
Nitrite-Accelerated Photochemical Degradation of Cellulose as a Pretreatment for Microbiological Conversion to Protein – REF. NO. EPA-670/2–73–052
Nitrogen and Phosphorus Losses from Agronomy Plots in North Alabama – REF. NO. EPA-660/2–74–033
Nitrogen in the Subsurface Environment — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–030
Nitrogen Removal By Ammonia Stripping – REF. NO. EPA-670/2–73–040
Nitrogen Sources and Cycling in Natural Waters – REF. NO. EPA-660/3–73–002
Nitrogenous Compounds in the Environment – REF. NO. EPA-SAB-73–001
Nomographs for Thermal Pollution Control Systems – REF. NO. EPA-660/2–73–004
Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques — Abstracted 600/9–75–001c — REF. NO. EPA-680/4–75–004
Normal Carboxyhemoglobin Levels of Blood Donors in the United States – REF. NO. EPA-650/1–73–004
North Fork Alluvial Decontamination Project, Hubbard Creek Reservoir Watershed – REF. NO. EPA-660/2–74–019
Nutrient Inactivation As A Lake Restoration Procedure — I. Laboratory Investigations – REF. NO. EPA-660/3–74–032
Nutritional Ecology of Nuisance Aquatic Plants — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–027
NATIONAL EUTROPHICATION SURVEY—Data Acquisitions and Laboratory Analysis System for Lake Samples – REF. NO. EPA-600/4–75–015
NERC-Cincinnati Annual Report, 1974 — Abstracted 600/9–75–001c — REF. NO. EPA-670/9–75–002
NO_x Combustion Control Methods and Costs for Stationary Sources—Summary Study – REF. NO. EPA-600/2–75–046
NO_2 Actinometer for Field Use – REF. NO. EPA-650/4–74–036
NO_2 Measuring System – REF. NO. EPA-650/2–74–059
NTA and Mercury in Artificial Stream Systems – REF. NO. EPA-660/3–73–025
Occupational and Environmental Pesticide Exposure Study in South Florida – REF. NO. EPA-650/1–75–002
Occurrence and Distribution of Potentially Volatile Trace Elements in Coal – REF. NO. EPA-650/2–74–054
Occurrence of Organohalides in Chlorinated Drinking Waters – REF. NO. EPA-670/4–74–008
Odor Removal from Air by Adsorption on Charcoal – REF. NO. EPA-650/2–74–084
Odors from Confined Livestock Production – A State of the Art – REF. NO. EPA-660/2–74–023
Odors Emitted From Raw and Digested Sewage Sludge – REF. NO. EPA-670/2–73–098
Off-the-Shelf Analyzers for Measuring Adenosine Triphosphate (ATP) in Activated Sludge – REF. NO. EPA-670/2–74–034
Oil Recovery System Using Sorbent Material – REF. NO. EPA-670/2–73–068
Oil Recovery System Utilizing Polyurethane Foam—A Feasibility Study – REF. NO. EPA-670/2–73–084
Oil Shale Air Pollution Control — Abstracted 600/9–75–001b — REF. NO. EPA-600/2–75–009
Oil Spill and Oil Pollution Reports — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–003
Oil Spill and Oil Pollution Reports – November 1974 – February 1975 — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–044
Oil Spill and Oil Pollution Reports, February 1975 – April 1975 — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–059
On-Line Colorimetric Analyzers for Monitoring Nitrate-Nitrite, Ammonia, Orthophosphorus and Total Hydrolyzable Phosphorus in Wastewater-Treatment Process Streams – REF. NO. EPA-670/2–74–046
On-Shore Treatment Systems for Sewerage from Watercraft Retention Systems — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–007
Optical Measurements of Smoke Particle Size Generated by Electric Arcs – REF. NO. EPA-650/2–74–034
Optimal Configuration of a Regional Solid Waste Management System – REF. NO. EPA-670/5–74–007
Optimization and Design of an Oil/Activated Sludge Concentration Process – REF. NO. EPA-670/2–74–004
Optimization of Air Pollution Measurement Locations – REF. NO. EPA-650/4–75–005
Optimization Models for Regional Public Systems – REF. NO. EPA-670/5–74–008
Optimizing a Petrochemical Waste Bio-Oxidation System Through Automation — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–021
Organic Compounds in Pulp Mill Lagoon Discharge — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–028
Organic Compounds Entering Groundwater from a Landfill – REF. NO. EPA-660/2–74–077
Organic Nutrient Factors Effecting Algal Growths – REF. NO. EPA-660/3–73–003
Outdoor Smog Chamber Studies: Effect of Hydrocarbon Reduction on Nitrogen Dioxide – REF. NO. EPA-650/3–75–011
Outpatient Medical Costs Related to Air Pollution in the Portland, Oregon Area – REF. NO. EPA-600/5–74–017
Overview of EPA/IERL-RTP Scrubber Programs – REF. NO. EPA-600/2–75–054
Oxidation of Halocarbons – REF. NO. EPA-650/3–75–008
Oxidation of Organic Matter in Sediments – REF. NO. EPA-660/3–73–005
Oxygenation of Aqueous Bodies Using Liquid Oxygen-Loxination – REF. NO. EPA-670/2–74–048
OR&D ADP Workshop Proceedings No. 1 – REF. NO. EPA-600/9–75–002
OR&D Publications Summary – December 1975 – REF. NO. EPA-600/9–75–001d
OR&D Publications Summary – June 1975 – REF. NO. EPA-600/9–75–001b
OR&D Publications Summary – March 1975 – REF. NO. EPA-600/9–75–001a
OR&D Publications Summary – September 1975 – REF. NO. EPA-600/9–75–001c
Particle Detector By Mechanical Impact Sensing – REF. NO. EPA-600/2–75–025
Particulate Collection Efficiency Measurements on a Wet Electrostatic Precipitator — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–033
Particulate Collection Efficiency Measurements on Three Electrostatic Precipitators – REF. NO. EPA-600/2–75–056
Particulate Collection Study, EPA/TVA Full-Scale Dry Limestone Injection Tests – REF. NO. EPA-650/2–74–053
Particulate Emissions from Alfalfa Dehydrating Plants — Control Costs and Effectiveness – REF. NO. EPA-650/2–74–007

TITLE INDEX

Particulate Emissions from Prototype Catalyst Cars – REF. NO. EPA-650/2–75–054
Particulate Removal From Gas Streams at High Temperature – High Pressure – REF. NO. EPA-600/2–75–020
Particulate Sizing Techniques for Control Device Evaluation – REF. NO. EPA-650/2–74–102
Particulate Sizing Techniques for Control Device Evaluation – REF. NO. EPA-650/2–74–102a
Paunch Manure as a Feed Supplement in Channel Catfish Farming – REF. NO. EPA-660/2–74–046
Pentapure Impinger Evaluation — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–024a
Performance of the OSCO Model 1391 Water Wastewater Sampler — Abstracted 600/9–75–001a — REF. NO. EPA-670/4–75–001
Performance of the Union Carbide Dissolved Oxygen Sensor – REF. NO. EPA-670/4–73–018
Performance Controls for Sensitive Lands: A Practical Guide For Local Administrators — Abstracted 600/9–75–001b — REF. NO. EPA-600/5–75–005
Performance Specifications for Stationary-Source Monitoring Systems for Gases and Visible Emissions – REF. NO. EPA-650/2–74–013
Pesticide Movement from Crop Lands into Lake Erie – REF. NO. EPA-660/2–74–032
Pesticide, Transport and Runoff Model for Agricultural Land – REF. NO. EPA-660/2–74–013
Pesticides in the Illinois Waters of Lake Michigan – REF. NO. EPA-660/3–74–002
Pesticides Epidemiological Field Studies – REF. NO. EPA-650/1–74–009
Petrograhpic Characteristics and Physical Properties of Marls, Chalks, Shells and Their Calcines Related to Desulfurization of Flue Gases – REF. NO. EPA-650/2–73–044
Petroleum Weathering: Some Pathways, Fate and Disposition on Marine Waters – REF. NO. EPA-660/3–73–013
Pharmacokinetics of Toxic Elements in Rainbow Trout – REF. NO. EPA-660/3–74–027
Phosphate Removal in an Activated Sludge Facility – REF. NO. EPA-670/2–74–061
Phosphorus Uptake and Release by Lake Ontario Sediments — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–006
Photochemical Oxidation of Kraft Air Pollutants – REF. NO. EPA-650/3–75–005
Physical – Chemical Treatment of Raw Material Wastewater – REF. NO. EPA-670/2–73–070
Physical and Setling Characteristics of Particulates in Storm and Sanitary Wastewaters — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–011
Physical-Chemical Treatment of Municipal Wastes by Recycled Magnesium Carbonate – REF. NO. EPA-660/2–74–055
Physical, Chemical and Microbiological Methods of Solid Waste Testing – REF. NO. EPA-670/2–73–001
Physical, Chemical and Microbiological Methods of Solid Waste Testing: Four Additional Procedures – REF. NO. EPA-670/2–74–007
Phytoplankton Composition and Abundance in Lake Ontario During IFYGL — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–004
Pilot – Demonstration Project for Industrial Reuse of Renovated Municipal Wastewater – REF. NO. EPA-670/2–73–064
Pilot Plant Optimization of Phosphoric Acid Recovery Process — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–015
Pilot Scale Treatment of Wine Stillage — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–75–002
Pilot-Plant Study of an Ammonia Absorption Ammonium Bisulfate Regeneration Process, Topical Report Phases I and II – REF. NO. EPA-650/2–74–049a
Planned Maintenance Management System for Municipal Wastewater Treatment Plants – REF. NO. EPA-600/2–73–004
Plant Scale Studies of the Magnesium Carbonate Water Treatment Process – REF. NO. EPA-660/2–75–006
Plume Temperature Measurements of Shallow Submerged Model Discharges With Current – REF. NO. EPA-660/2–73–001
Pneumo-Slurry Pipeline Collection and Removal of Municipal Solid Waste – REF. NO. EPA-670/2–73–072
Pollutant Analysis Cost Survey – REF. NO. EPA-650/2–74–125
Polluted Groundwater: A Review of the Significant Literature – REF. NO. EPA-600/4–74–001
Polluted Groundwater: Estimating the Effects of Man's Activities (Formerly 600/4–74–002) – REF. NO. EPA-680/4–74–002
Polluted Groundwater: Some Causes, Effects, Controls and Monitoring – REF. NO. EPA-600/4–73–001b
Pollution Abatement From Cattle Feedlots in Northeastern Colorado and Nebraska — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–015
Pollution Aspects of Catfish Production—Review and Projections – REF. NO. EPA-660/2–74–064
Pollution Control Technology for Pesticide Formulators and Packagers — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–74–094
Pollution Control Technology Assessment – Proceedings of an Environmental Resources Conference, May 1–3, 1974 — Abstracted 600/9–75–001a — REF. NO. EPA-670/9–74–006
Pollution Effects on Adult Steelhead Migration in the Snake River – REF. NO. EPA-660/3–73–017
Pollution Problems and Research Needs for an Oil Shale Industry – REF. NO. EPA-660/2–74–067
Portable Device for Measuring Wastewater Flow in Sewers – REF. NO. EPA-600/2–73–002
Potentially Hazardous Emissions From The Extraction and Processing of Coal and Oil — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–038
Poultry Manure Disposal by Plow-Furrow-Cover – REF. NO. EPA-670/2–73–085
Poultry Processing Wastewater Treatment and Reuses – REF. NO. EPA-660/2–74–060
Precipitation Scavenging of Inorganic Pollutants from Metropolitan Sources – REF. NO. EPA-650/3–74–005
Prediction of Sub-soil Erodibility Using Chemical, Mineralogical and Physical Parameters – REF. NO. EPA-660/2–74–043
Preliminary Assessment of Wet Systems for Residential Refuse Collection – REF. NO. EPA-670/2–74–065
Preliminary Design of a Comprehensive Waste Oil Processing Facility — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–056
Preliminary Design of a Household Refuse Grinder – REF. NO. EPA-670/2–74–020
Preliminary Milk Report — Abstracted 600/9–75–001c — REF. NO. EPA-680/4–75–007
Preparation and Evaluation of Activated Carbon Produced from Municipal Refuse – REF. NO. EPA-670/2–73–010
Preventing Landfill Leachate Contamination of Water – REF. NO. EPA-670/2–73–021
Pricing for Water Supply: Its Impact on Systems Management – REF. NO. EPA-670/1–74–001
Problems and Opportunities in Management of Combustible Solid Wastes – REF. NO. EPA-670/2–73–056
Procedures for Measurement in Stratified Gases – Volume I – REF. NO. EPA-650/2–74–086a
Procedures for Measurement in Stratified Gases – Volume II, Appendices – REF. NO. EPA-650/2–74–086b

TITLE INDEX

Proceeding, Coal Combustion Seminar, June 19–20, 1973 – REF. NO. EPA-650/2–73–021
Proceedings of the Solvent Reactivity Conference – REF. NO. EPA-650/3–74–010
Proceedings of First US/USSR Symposium on Comprehensive Analysis of the Environment – REF. NO. EPA-600/9–75–004
Proceedings of Seminar on Methodology for Monitoring the Marine Environment – REF. NO. EPA-600/4–74–004
Proceedings of Symposium on Statistical Aspects of Air Quality – REF. NO. EPA-650/4–74–038
Proceedings of Third International Conference on Fluidized-Bed Combustion – REF. NO. EPA-650/2–73–053
Proceedings Fourth National Symposium on Food Processing Wastes – REF. NO. EPA-660/2–73–031
Proceedings, Symposium Control of Fine-Particulate Emissions from Industrial Sources, January 15–18, 1974 San Francisco, CA – REF. NO. EPA-600/2–74–008
Proceedings: Biostimulation-Nutrient Assessment Workshop — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–034
Proceedings: Fifth National Symposium on Food Processing Wastes – REF. NO. EPA-660/2–74–058
Proceedings: Flue Gas Desulfurization Symposium 1973 – REF. NO. EPA-650/2–73–038
Proceedings: Symposium on the Use of Fabric Filters for the Control of Submicron Particulates (April 8–10, 1974, Boston, Ma.) – REF. NO. EPA-650/2–74–043
Proceedings: Symposium on Flue Gas Desulfurization – Atlanta, November 1974, Volume II – REF. NO. EPA-650/2–74–126b
Proceedings: Symposium on Fine Particles – Minneapolis, Minnesota, May 1975 – REF. NO. EPA-600/2–75–059
Process and Environmental Technology for Producing SNG and Liquid Fuels — Abstracted 600/9–75–001b — REF. NO. EPA-660/2–75–011
Process Modifications for Control of Particulate Emissions from Stationary Combustion, Incineration, and Metals – REF. NO. EPA-650/2–74–100
Production of Clean Fuel Gas From Bituminous Coal – REF. NO. EPA-650/2–73–049
Production of Low-Sulfur Gasoline – REF. NO. EPA-650/2–74–130
Program for Reduction of NO_x from Tangential Coal-Fired Boilers, Phase II – REF. NO. EPA-650/2–73–005a
Program for Reduction of NO_x from Tangential Coal-Fired Boilers, Phase IIa – NO_x – REF. NO. EPA-650/2–73–005b
Program for Reduction of NO_x from Tangential Coal-Fired Boilers – Phase 1 – REF. NO. EPA-650/2–73–005
Programmed Demonstration for Erosion and Sediment Control Specialist – REF. NO. EPA-660/2–74–071
Progress in Instrumentation and Techniques for Measurement of Air Pollutants – REF. NO. EPA-650/2–74–015
Projects in the Industrial Pollution Control Division – December 1974 — Abstracted 600/9–75–001a — REF. NO. EPA-600/2–75–001
Promising Technologies for Treating Hazardous Waste – REF. NO. EPA-670/2–74–088
Promoting Environmental Quality Through Urban Planning and Control – REF. NO. EPA-600/5–73–015
Properties of Ammonium Sulfate, Ammonium, and Sulfur Dioxide Solutions in Ammonia Scrubbing Processes – REF. NO. EPA-650/2–73–012
Protein Production from Acid Whey VIA Fermentation – REF. NO. EPA-660/2–74–025
Protocol for Evaluating the Nitrogen Status of Lake Sediments – REF. NO. EPA-660/3–73–024
Protocol to Characterize Gaseous Emissions as a Function of Fuel and Additive Composition – REF. NO. EPA-600/2–75–048
Public Attitudes Toward Hazardous Waste Disposal Facilities – REF. NO. EPA-670/2–73–086
Puget Sound Oceanographic Field Studies Data Report, Everett, BELLINGHAM, Port Angeles, 1962–63 – REF. NO. EPA-660/3–73–014
Pyrolysis of Solid Municipal Wastes – REF. NO. EPA-670/2–73–039
Quality of Life Concept – A Potential New Tool For DecisionMakers – REF. NO. EPA-600/5–75–011
Quality of Life Indicators in U.S. Metropolitan Areas, 1970: A Comprehensive Assessment – REF. NO. EPA-600/5–75–016
Quantification of Pollution in Agricultural Runoff – REF. NO. EPA-660/2–74–005
Quantitative Analysis of Airborne Asbestos by X-Ray Diffraction: Final Report on Feasibility Study – REF. NO. EPA-650/2–75–004
Quantitative Method for Effluent Compliance Monitoring Resource Allocation — Abstracted 600/9–75–001c — REF. NO. EPA-600/5–75–015
Radiation Quality Assurance Intercomparison Studies 1974–1975 – REF. NO. EPA-600/4–75–014
Radiation Treatment of High Strength Chlorinated Hydrocarbon Wastes — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–017
Radio Chemical Methodology for Drinking Water — Abstracted 600/9–75–001c — REF. NO. EPA-600/4–75–008
Radioactivity Standards Distribution Program – 1975 — Abstracted 600/9–75–001b — REF. NO. EPA-680/4–75–002a
Radioactivity Standards Distribution Program, 1973 – 1974 – REF. NO. EPA-680/4–73–001A
Radiolytic Hydrolysis of Cellulose – REF. NO. EPA-670/2–73–030
Rainfall-Runoff Relations on Urban and Rural Areas — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–044
Rationale and Methodology for Monitoring Groundwater Polluted by Mining Activities (Formerly 600/4–74–003) – REF. NO. EPA-680/4–74–003
Raw Materials Transportation Costs and Their Influence on the Use of Wastepaper and Scrap Iron and Steel, Volume I – Technical Discussion – REF. NO. EPA-670/2–74–024A
Raw Materials Transportation Costs and Their Influence on the Use of Wastepaper and Scrap Iron and Steel, Volume II – Appendices – REF. NO. EPA-670/2–74–024B
Raw Sewage Coagulation and Aerobic Sludge Digestion – REF. NO. EPA-600/2–75–049
Reactivity of Polynuclear Aromatic Hydrocarbons with O_2 and NO in the Presence of Light – REF. NO. EPA-650/1–74–010
Recirculating Waste System for Swine Units – REF. NO. EPA-670/2–73–025
Reclamation of Energy from Organic Waste – REF. NO. EPA-670/2–74–016
Reclamation of Metal Values from Metal-Finishing Waste Treatment Sludges — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–018
Reclamation of Sulfuric Acid From Waste Streams — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–016
Recommended Design of Sample Intake Systems for Automatic Instrumentation – REF. NO. EPA-600/4–75–012
Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume I – Summary Report – REF. NO. EPA-670/2–73–053A

TITLE INDEX

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume II – Toxicologic Summary – REF. NO. EPA-670/2–73–053B

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume III – Disposal Process Discriptions: Ultimate Disposal Incineration, and Pyrolysis Processes – REF. NO. EPA-670/2–73–053C

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volum IV – Disposal Process Descriptions: Biological and Miscellaneous Waste Treatment Processes – REF. NO. EPA-670/2–73–053D

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume V – National Disposal Site Candidate Waste Stream Constituent Profile Reports – Pesticides and Cyanide Compounds – REF. NO. EPA-670/2–73–053E

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VI – National Disposal Site Candidate Waste Stream Constituent Profile Report – Mercury, Arsenic, Chromium and Cadmium Compounds – REF. NO. EPA-670/2–73–053F

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VII – National Disposal Site Candidate Waste Stream Constituent Profile Report – Propellants, Explosives, and Chemical Warfare Material – REF. NO. EPA-670/2–73–053G

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume VIII – National Disposal Site Candidate Waste Stream Constituent Profile Report – Miscellaneous Inorganic and Organic Compounds – REF. NO. EPA-670/2–73–053H

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume IX – National Disposal Site Candidate Waste Stream Constituent Profile Report – Radioactive Materials – REF. NO. EPA-670/2–73–053I

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume X – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Organic Compounds – REF. NO. EPA-670/2–73–053J

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XI – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Organic Compounds – REF. NO. EPA-670/2–73–053K

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XII – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Inorganic Compounds – REF. NO. EPA-670/2–73–053L

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XIII – Industrial and Municipal Disposal Candidate Waste Stream Constituent Profile Reports – Inorganic Compounds – REF. NO. EPA-670/2–73–053M

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XIV – Summary of Waste Origins, Forms and Quantities – REF. NO. EPA-670/2–73–053N

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XV – Research and Development Plans – REF. NO. EPA-670/2–73–053O

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume XVI – References – REF. NO. EPA-670/2–73–053P

Recommended Methods of Reduction, Neutralization, Recovery or Disposal of Hazardous Waste, Volume I thru Volume XVI – REF. NO. EPA-670/2–73–053A-P

Recovery of Fatty Materials From Edible Oil Refinery Effluents – REF. NO. EPA-660/2–73–015

Recycle of Synthetic Warp Sizes From Textile Desizing Wastewater — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–014

Recycling of Waste Oils — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–068

Reduction of Atmospheric Pollution by the Application of Fluidized-Bed Combustion – REF. NO. EPA-650/2–74–057

Reduction of Atmospheric Pollution by the Application of Fluidized-Bed Combustion and Regeneration of Sulfur-Containing Additives – REF. NO. EPA-650/2–74–104

Refinery Catalytic Cracker Reginerator SOx Control Process Survey – REF. NO. EPA-650/2–74–082

Refinery Effluent Water Treatment Plant Using Activated Carbon — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–020

Regeneration of Chromated Aluminum Deoxidizers – REF. NO. EPA-660/2–73–023

Regenerative Limestone Process for Fluidized – Bed Coal Combustion and Desulfurization – REF. NO. EPA-650/2–74–001

Regional Air Pollution Study Program – Final Report – REF. NO. EPA-650/3–75–009

Regional Governmental Arrangements in Metropolitan Areas: Nine Case Studies – REF. NO. EPA-600/5–74–024

Relationship Between Circumsolar Sky Brightness and Atmospheric Aerosols – REF. NO. EPA-650/4–75–012

Relationship Between Diameter and Height for the Design of a Swirl Concentrator as a Combined Sewer Overflow Regulator – REF. NO. EPA-670/2–74–039

Remote Measurement of Power Plant Smoke Stack Effluent Velocity – REF. NO. EPA-650/2–75–062

Remote Sensing of Air Pollution in Urban Areas – REF. NO. EPA-650/2–73–026

Remote Sensing of Pollutants – Computerized Reduction of Long-Path Absorption Data – REF. NO. EPA-650/2–74–113

Removal of Chromium from Plating Rinse Water Using Activated Carbon — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–055

Removal of Heavy Metals from Mine Drainage by Precipitation – REF. NO. EPA-670/2–73–080

Removal of Manganese From Mine Drainage by Ozone and Chlorine — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–006

Renovation of Secondary Effluent for Re-use as a Water Resource – REF. NO. EPA-660/2–74–016

Replacement of Activated Sludge Secondary Clarifiers by Dynamic Straining — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–045

Report on the Problem of Halogenated Air Pollutants and Stratospheric Ozone – REF. NO. EPA-600/9–75–008

Research and Development of a Selective Algaecide to Control Nuisance Algal Growth-Phase III – REF. NO. EPA-660/3–74–019

Research Needs and Priorities: Water Pollution Control Benefits and Cost – Volume II – REF. NO. EPA-600/5–73–008b

Research Needs for the Potable Reuse of Municipal Wastewater – REF. NO. EPA-600/9–75–007

Research Status of Effects of Land Application of Animal Wastes — Abstracted 600/9–75–001b — REF. NO. EPA-660/2–75–010

Research Study of Coal Preparation Plant and By-Product Coke Plant Effluents – REF. NO. EPA-660/2–74–050

Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent – REF. NO. EPA-670/2–74–077

Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent; Appendix A-2 and Appendix A-6 — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–027

TITLE INDEX

Review of the Physiological Impact of Mercurials – REF. NO. EPA-660/3–73–022
Review of Environmental Impact Assessment Methodologies – REF. NO. EPA-600/5–74–002
Review of Landspreading of Liquid Municipal Sewage Sludge — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–049
Reviewing Environmental Impact Statements – Power Plant Cooling Systems, Engineering Aspects – REF. NO. EPA-660/2–73–016
Reviews of Current Literature on Analytical Methodology and Quality Control – Activities for 1973 through 1974 – REF. NO. EPA-670/4–74–003b
Role of Polyelectrolytes in Filtration Processes – REF. NO. EPA-670/2–74–032
Role of Solid-Gas Interactions in Air Pollution – REF. NO. EPA-650/3–74–007
Role of Trace Elements in Management of Nuisance Growths — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–75–008
Rotating Biological Disk Wastewater Treatment Process – Pilot Plant Evaluation – REF. NO. EPA-670/2–73–027
Routing of Solid Waste Collection Vehicles, Final Report: Appendix A – Manual for Use of the Computer Codes — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–036a
Routing of Solid Waste Collection Vehicles: Appendix B – A Heuristic Solution to the M-Postmen's Problem — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–036b
Rum Distillery Slops Treatment by Anaerobic Contact Process – REF. NO. EPA-660/2–74–074
Saline Groundwater Produced with Oil and Gas – REF. NO. EPA-660/2–74–010
Salt Water Detection in the Cimarron Terrace, Oklahoma — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–74–033
Sampling Interface for Quantitative Transport of Aerosols — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–016
Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment – REF. NO. EPA-600/2–75–043
Sasol Type Process for Gasoline, Methanol, SNG, and Low-BTU Gas from Coal – REF. NO. EPA-650/2–74–072
Scale Control in Limestone Wet Scrubbing Systems — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–031
Scientific and Technical Assessment Report on Cadmium – REF. NO. EPA-600/6–75–003
Scientific and Technical Assessment Report on Manganese – REF. NO. EPA-600/6–75–002
Scientific and Technical Assessment Report on Particulate Polycyclic Organic Matter (PPOM) – REF. NO. EPA-600/6–75–001
Scientific and Technical Assessment Report on Vinyl Chloride and Polyvinyl Chloride – REF. NO. EPA-600/6–75–004
Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows – REF. NO. EPA-600/2–75–064
Scientific Seminar on Automotive Pollutants – REF. NO. EPA-600/9–75–003
Scrap Rubber Tire Utilization in Road Dressings – REF. NO. EPA-670/2–74–014
Second Annotated Bibliography on Biological Effects of Metals in Aquatic Environment (No. 568–1292) – REF. NO. EPA-600/3–75–002
Second U.S. – Japan Conference on Sewage Treatment Technology December 1–6, 1972 – REF. NO. EPA-670/9–74–003
Secondary Annotated Bibliography of Biological Effects of Metals in Aquatic Environments – REF. NO. EPA-600/3–75–008
Secondary Fiber Recovery Incentive Analysis – REF. NO. EPA-670/5–74–004
Secondary Impact of Transportation and Wastewater Investments: Review and Bibliography — Abstracted 600/9–75–001a — REF. NO. EPA-600/5–75–002
Secondary Impacts of Transportation and Wastewater Investments: Research Results — Abstracted 600/9–75–001c — REF. NO. EPA-600/5–75–013
Sediments and Sediment-Water Nutrient Interchanges in Upper Klamath Lake, Oregon – REF. NO. EPA-660/3–74–015
Select Research Group in Air Pollution Meteorology, Second Annual Progress Report Volume I – REF. NO. EPA-650/4–74–045a
Select Research Group in Air Pollution Meteorology, Second Annual Progress Report Volume II – REF. NO. EPA-650/4–74–045b
Selected Abstracts for Instrumentation and Automation of Wastewater Facilities – REF. NO. EPA-670/2–73–104
Selected Characteristics of Hazardous Pollutant Emissions – REF. NO. EPA-600/2–74–004
Selected Irrigation Return Flow Quality Abstracts: 1972–1973 – REF. NO. EPA-660/2–74–049
Selective Nutrient Removal Secondary Effluent – REF. NO. EPA-670/2–73–076
Semi-Automatic Control of Activated Sludge Plants – State of the Technology – REF. NO. EPA-600/2–75–058
Seminar on Electrostatics and Fine Particles — September 1973 – REF. NO. EPA-650/2–74–081
Seminar Summary: Sampling and Analysis of the Various Forms of Atmospheric Lead – REF. NO. EPA-650/2–75–003
Separation, Dewatering, and Disposal of Sugar Beet Transport Water Solids Phase I – REF. NO. EPA-660/2–74–093
Sewer Flow Measurement – A State-of-the Art Assessment – REF. NO. EPA-600/2–75–027
Sewerage System Monitoring and Remote Control — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–020
Short Course Proceedings: Applications of Stormwater Management Models — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–065
Shrimp Canning Waste Treatment Study – REF. NO. EPA-660/2–74–061
Significance and Control of Waste Water Floatables in Coastal Waters – REF. NO. EPA-660/3–74–016
Silt Removal From a Lake Bottom — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–74–017
Simplified Atomic Absorption Determination of Stable Strontium in Milk and Hay – REF. NO. EPA-680/4–73–002
Simulation City Approach for Preparation of Urban Area Data Bases – REF. NO. EPA-600/5–74–001
Simultaneous and Automated Determination of Total Phosphorous and Total Kjeldahl – REF. NO. EPA-670/4–74–002
Single-Cell Protein From Waste Cellulose – REF. NO. EPA-670/2–73–095
Single-Stage Nitrification-Denitrification — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–051
Sinter Plant Windbox Gas Recirculating System Demonstration – REF. NO. EPA-600/2–75–014
Sludge Conditioning Using SO_2 and Low Pressure for Production of Organic Feed Concentrate – REF. NO. EPA-670/2–73–062
Socio-Economic Factors Affecting Demand for Municipal Collection of Household Refuse – REF. NO. EPA-670/9–73–035
Sodium Conditioning to Reduce Fly Ash Resistivity – REF. NO. EPA-650/2–74–092
Soil Modification for Denitrification and Phosphate Reduction of Feed Lot Wastes – REF. NO. EPA-660/2–74–057
Solid Waste Conversion: Cellulose Liquefaction — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–031
Solid Waste Disposal Final Report – REF. NO. EPA-650/2–74–033
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–036

TITLE INDEX

Some Topics Relating to Modeling of Dispersion in Boundary Layer – REF. NO. EPA-650/4–75–015
Source Assessment Prioritization of Air Pollution from Industrial Surface Coating Operations — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–019a
Sources and Characterization of Fine Particulate Test Dusts — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–117
Sources and Natural Removal Processes for Some Atmospheric Pollutants – REF. NO. EPA-650/4–74–032
Sources of Oil and Water in Bilges of Great Lakes Ships – REF. NO. EPA-670/2–74–054
Specific Ion Mass Spectrometric Detection for Gas Chromatographic Pesticide Analysis – REF. NO. EPA-660/2–74–004
Specifications for Materials Recovered from Municipal Refuse — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–034
Spectroscopic Study of California Smog – REF. NO. EPA-650/4–75–006
St. Louis Refuse Processing Plant Equipment, Facility, and Environmental Evaluations — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–044
St. Louis/Union Electric Refuse Firing Demonstration Air Pollution Test Support – REF. NO. EPA-650/2–74–073
State of the System (SOS) Model – REF. NO. EPA-600/5–73–013
State of Maryland Waste Oil Recovery and Reuse Program – REF. NO. EPA-670/2–74–013
State-of-the-Art Review: Water Pollution Control Benefits and Costs – Volume I – REF. NO. EPA-600/5–73–008a
State-of-the-Art: Sand and Gravel Industry – REF. NO. EPA-660/2–74–066
State-of-the-Art: Uranium Mining, Milling, and Refining Industry – REF. NO. EPA-660/2–74–038
State-of-the-Art: 1971 Instrumentation for Measurement of Particulate Emissions from Combustion Sources – REF. NO. EPA-650/2–73–022
State-of-The-Art For The Inorganic Chemicals Industry: Commercial Explosives — Abstracted 600/9–75–001a — REF. NO. EPA-600/2–74–009b
State-of-The-Art For The Inorganic Chemicals Industry: Industrial Inorganic Gases — Abstracted 600/9–75–001a — REF. NO. EPA-600/2–74–009c
State-of-The-Art For The Inorganic Chemicals Industry: Inorganic Pesticides — Abstracted 600/9–75–001a — REF. NO. EPA-600/2–74–009a
Statistical Concepts for Design Engineers — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–080
Statistical Prediction of Equilibrium Temperature From Standard Meteorological Data Bases – REF. NO. EPA-660/2–73–003
Statistical Questions Relating to the Validation of Air Quality Simulation Models – REF. NO. EPA-650/4–75–010
Stone & Webster/Ionics SO_2 Removal and Recovery Process: Phase I, Final Report — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–045
Storage and Disposal of Iron Ore Processing Wastewater – REF. NO. EPA-660/2–74–018
Storm Water Management Model: Dissemination and User Assistance — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–041
Storm Water Management Model: User's Manual – Version II — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–017
Stream Pollution Abatement by Supplement Pumping — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–035
Structure and Reactivity of Adsorbed Oxides of Sulfur – REF. NO. EPA-650/3–74–006
Studies in Environment – Volume I – Summary Report – REF. NO. EPA-600/5–73–012a
Studies in Environment – Volume II – Quality of Life – REF. NO. EPA-600/5–73–012b
Studies in Environment – Volume III – Pollution and the Municipality – REF. NO. EPA-600/5–73–012c
Studies in Environment – Volume IV – Consumption Differentials and the Environment – REF. NO. EPA-600/5–73–012d
Studies in Environment – Volume V – Outdoor Recreation and the Environment – REF. NO. EPA-600/5–73–012e
Studies of Low Molecular Weight Lignin Sulfonates – REF. NO. EPA-660/2–74–069
Studies of Pollutant Concentration Frequency Distributions – REF. NO. EPA-650/4–75–004
Studies of Small Metallic Particles Formed by Homogeneous Nucleation: Light Scattering and Electron Microscopy – REF. NO. EPA-650/3–75–006
Studies on Effects of Thermal Pollution in Biscayne Bay in Florida – REF. NO. EPA-660/3–74–014
Studies on Modifications of Solid Industrial Wastes – REF. NO. EPA-670/2–73–065
Studies on Southeastern Aquatic Insects – REF. NO. EPA-660/3–73–016
Studies to Determine Methods for Culturing Three Freshwater Zooplankton Species — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–75–010
Study of an Integrated Power, Water and Wastewater Utility Complex – REF. NO. EPA-670/2–74–080
Study of the Ecology of Pesticides – REF. NO. EPA-650/1–74–012
Study of the Economics of Hospital Solid Waste Systems – REF. NO. EPA-670/5–73–020
Study of the Effects of Low Levels of Carbon Monoxide Upon Humans Performing Driving Tasks – REF. NO. EPA-650/1–74–006
Study of the Social and Economic Impact of Odors – Phase III – REF. NO. EPA-650/5–73–001
Study of Aerosol Formation in Photochemical Air Pollution – REF. NO. EPA-650/3–75–007
Study of Air Pollutant Emissions from Residential Heating Systems – REF. NO. EPA-650/2–74–003
Study of Combustor Flow Computations and Comparison with Experiment – REF. NO. EPA-650/2–73–045
Study of Concepts for Minimizing Emissions From CokeOven Door Seals – REF. NO. EPA-650/2–75–064
Study of Corrosion in Municipal Incinerators Versus Refuse Composition — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–74–084
Study of Factors Affecting Reactions in Environmental Chambers Final Report on Phase II – REF. NO. EPA-650/3–74–004a
Study of Feasibility of Herbicide Orange Chlorinolysis – REF. NO. EPA-600/2–74–006
Study of Ferroalloy Furnace Product Flexibility – REF. NO. EPA-650/2–75–063
Study of Flux Force – Condensation Scrubbing of Fine Particules – REF. NO. EPA-600/2–75–018
Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume I – REF. NO. EPA-670/2–73–014
Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume II – REF. NO. EPA-670/2–73–015
Study of Hazardous Waste Materials, Hazardous Effects and Disposal Methods, Volume III – REF. NO. EPA-670/2–73–016
Study of Incinerator Residue Analysis of Water Soluble Components – REF. NO. EPA-670/2–73–057
Study of Indoor Air Quality – REF. NO. EPA-650/4–74–042

TITLE INDEX

Study of Institutional Solid Wastes – REF. NO. EPA-670/2–73–083
Study of Potential Problems and Optimum Opportunities in Retrofitting Industrial Processes to Low and Intermediate Energy Gas from Coal – REF. NO. EPA-650/2–74–052
Study of SO$_x$ Control For Selected Industrial Boilers – REF. NO. EPA-600/2–75–011
Study of Upflow Filter for Tertiary Treatment – REF. NO. EPA-670/2–73–074
Study on Technical and Economic Feasibility of a Hydrogenation Process for Utilization of Waste Rubber – REF. NO. EPA-670/2–73–066
Submerged Combustion Evaporator for Concentration of Brewery Spent Grain Liquor – REF. NO. EPA-660/2–74–059
Subsurface Biological Activity in Relation to Ground Water Pollution – REF. NO. EPA-660/2–73–014
Sulfur and Nitrogen Balances in the Solvent Refined Coal Process — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–011
Sulfur Compound Emissions of the Petroleum Production Industry — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–030
Sulfur Content of Douglas Fir Foliage Near a Paper Mill – REF. NO. EPA-660/3–74–018
Sulfur Oxide Throwaway Sludge Evaluation Panel (SOTSEP), Volume I: Final Report – Executive Summary — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–010a
Sulfur Oxide Throwaway Sludge Evaluation Panel (SOTSEP), Volume II: Final Report – Technical Discussion — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–010b
Sulfuric Acid and Ferrous Sulfate Recovery From Waste Pickle Liquor – REF. NO. EPA-660/2–73–032
Summary Report – Pilot Plant Studies on Dewatering Primary Digested Sludge – REF. NO. EPA-670/2–73–043
Summary Report, Trail-Marking and Alarm Pheromones of Some Ants of the Genus Atta – REF. NO. EPA-660/2–74–081
Summary Report: Workshop on Ozone Measurement by the Potassium Iodide Method – REF. NO. EPA-650/4–75–007
Summation of Conditions and Investigations for the Complete Combustion of Organic Pesticides – REF. NO. EPA-600/2–75–044
Surface Effects Skimmer Development — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–066
Surge Facility for Wet and Dry Weather Flow Control – REF. NO. EPA-670/2–74–075
Survey of Corrosion Products in the Seattle Water Department Tolt Distribution — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–036
Survey of Flue Gas Desulfurization Systems – Dickerson Station, Potomac Electric Power Company – REF. NO. EPA-650/2–75–057g
Survey of Flue Gas Desulfurization Systems – Eddystone Station, Philadelphia Electric Company – REF. NO. EPA-650/2–75–057f
Survey of Flue Gas Desulfurization Systems – Hawthorn Station, Kansas City Power and Light Co. – REF. NO. EPA-650/2–75–057h
Survey of Flue Gas Desulfurization Systems – Lawrence Power Station, Kansas Power and Light Company – REF. NO. EPA-650/2–75–057e
Survey of Flue Gas Desulfurization Systems – Mohave Station, Southern California Edison Co. – REF. NO. EPA-650/2–75–057k
Survey of Flue Gas Desulfurization Systems – Reid Gardner Station, Nevada Power Co. – REF. NO. EPA-650/2–75–057j
Survey of Flue Gas Desulfurization Systems – Will County Station, Commonwealth Edison Co. – REF. NO. EPA-650/2–75–057i
Survey of Flue Gas Desulfurization Systems Cholla Power Generating Station, Arizona Public Service Company — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–057a
Survey of Flue Gas Desulfurization Systems La Cygne Station, Kansas City Power and Light Co. and Kansas Gas and Electric Co. – REF. NO. EPA-650/2–75–057b
Survey of Flue Gas Desulfurization Systems Paddy's Run Station, Louisville Gas and Electric – REF. NO. EPA-650/2–75–057d
Survey of Flue Gas Desulfurization Systems Phillips Power Station, Duquesne Light Co. – REF. NO. EPA-650/2–75–057c
Survey of Manual Methods of Measurements of Asbestos, Beryllium, Lead, Cadmium, Selenium, and Mercury in Stationary Source Emissions – REF. NO. EPA-650/4–74–015
Survey of Users of the EPA – Reference Method for Measurement of Non-Methane Hydrocarbons in Ambient Air – REF. NO. EPA-650/4–75–008
Survival of Pathogens in Animal Manure Disposal – REF. NO. EPA-670/2–73–051
Survival of Pathogens in Animal Manure Disposal — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–012
Suspended Solids Monitor — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–002
Symposium on Electrostatic Precipitators for the Control of Fine Particles — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–016
Symposium on Flue Gas Desulfurization – Atlanta, November 1974 Volume I – REF. NO. EPA-650/2–74–126a
Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology (May 1974, St. Louis, Missouri) — Abstracted 600/9–75–001b — REF. NO. EPA-650/2–74–118
Synergistic Effect of Polonium-210 and Cigarette Smoke in Rats — Abstracted 600/9–75–001b — REF. NO. EPA-680/1–75–001
Synthesis and Purification of Carcinogenic Polynuclear Aromatic Hydrocarbon Standards – REF. NO. EPA-650/2–74–040
Synthesis of Trifluoromethylsulfur Pentafluoride (CF_3SF_5) – REF. NO. EPA-650/4–74–010
System Alternatives in Oxygen Activated Sludge — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–008
System Analysis of Air Pollutant Emissions from the Chemical/ Plastics Industry – REF. NO. EPA-650/2–74–106
Systems Analysis Requirements for Nitrogen Oxide Control of Stationary Sources – REF. NO. EPA-650/2–74–091
Systems Simulation and Solid Waste Planning: A Case Study – REF. NO. EPA-670/5–73–012
SO_2 Reduction in Non-utility Combustion Sources – Technical and Economic Comparison of Alternatives – REF. NO. EPA-600/2–75–073
SWIRL Concentrator as a Grit Separator Device – REF. NO. EPA-670/2–74–026
Taxonomy and Ecology of Stenonema Mayflies (Heptageniidae: Ephemeroptera) — Abstracted 600/9–75–001a — REF. NO. EPA-670/4–74–006
Taxonomy of Klebsiella pneumoniae Isolated From Pulp/Paper Mill Wastewater — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–024
Technical and Economic Evaluation of Cooling Systems Blowdown Control Techniques – REF. NO. EPA-660/2–73–026
Technical Support Document for the Proposed Replacement Reference Method for Nitrogen Dioxide – REF. NO. EPA-600/4–75–003
Techniques for Measuring Fly Ash Resistivity – REF. NO. EPA-650/2–74–079
Temperature Effects on Eggs and Fry of Percoid Fishes — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–75–017
Tentative Reference Method for the Measurement of Gross Alpha and Gross Beta Radioactivities in Environmental Waters — Abstracted 600/9–75–001c — REF. NO. EPA-680/4–75–005

TITLE INDEX

Tentative Reference Method for Measurement of Tritium in Environmental Waters – REF. NO. EPA-600/4–75–013
Tertiary Treatment With a Controlled Ecological System – REF. NO. EPA-660/2–73–022
Test Evaluation of Cat-Ox High Efficiency Electrostatic Precipitator — Abstracted 600/9–75–001c — REF. NO. EPA-600/2–75–037
Test Method for Volatile Component Stripping of Wastewater – REF. NO. EPA-660/2–74–044
Testing of a Molecular Sieve Used to Control Mercury Emission From A Chlor-Alkali Plant, Volume I — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–026a
Testing of a Molecular Sieve Used to Control Mercury Emission From A Chlor-Alkali Plant, Volume II – Appendices — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–026b
Theoretical and Experimental Study of the Lime/Limestone Wet Scrubbing Process — Abstracted 600/9–75–001c — REF. NO. EPA-650/2–75–006
Theoretical Model and Solubility Characteristics of Aroclor R 1254 in Water: Problems Associated with Low-Solubility Compounds in Aquatic Toxicity Test — Abstracted 600/9–75–001a — REF. NO. EPA-660/3–74–013
Thermal Radiation Modeling for Pollution Predictions – REF. NO. EPA-650/2–74–011
Thermophilic Aerobic Digestion of Organic Solid Wastes – REF. NO. EPA-670/2–73–061
Third U.S. — Japan Conference on Sewage Treatment Technology, Proceedings, February 12 – 16, 1974 — Abstracted 600/9–75–001c — – REF. NO. EPA-670/9–75–005
Tidal Flats in Estuarine Water Quality Analysis — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–025
Tissue Enzyme Assay for Chlorinated Hydrocarbon Insecticides – REF. NO. EPA-660/2–73–027
Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout – REF. NO. EPA-600/3–75–013
Toxicity of Selected Pesticides to the Bay Mussel (Mytilus edulis) — Abstracted 600/9–75–001b — REF. NO. EPA-660/3–75–016
Trace Pollutant Emissions from the Processing of Metallic Ores – REF. NO. EPA-650/2–74–115
Trace Pollutant Emissions from the Processing of Non-Metallic Ores – REF. NO. EPA-650/2–74–122
Training Manual for Teratology – REF. NO. EPA-650/1–73–001
Travels of Airborne Pollen – REF. NO. EPA-650/3–75–003
Treatment and Recovery of Fluoride Industrial Waste – REF. NO. EPA-660/2–73–024
Treatment and Ultimate Disposal of Cattle Feedlot Wastes — Abstracted 600/9–75–001b — REF. NO. EPA-660/2–75–013
Treatment of Cheese Processing Wastewaters in Aerated Lagoons – REF. NO. EPA-660/2–74–012
Treatment of Combined Sewer Overflows by Dissolved Air Flotation – REF. NO. EPA-600/2–75–033
Treatment of Domestic Wastewater and NSSC Pulp and Paper Mill Wastes – REF. NO. EPA-660/2–73–010
Treatment of Hazardous Material Spills With Floating Mass Transfer Media – REF. NO. EPA-670/2–73–078
Treatment of Packing House Waste by Anaerobic Lagoons in Plastic-Media Filters – REF. NO. EPA-660/2–74–027
Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components – REF. NO. EPA-660/2–73–030
Treatment of Textile Wastewater by Activated Sludge and Alum Coagulation – REF. NO. EPA-600/2–75–055
Trench Incorporation of Sewage Sludge in Marginal Agricultural Land – REF. NO. EPA-600/2–75–034
Tritium Fractionation in Plants — Abstracted 600/9–75–001c — REF. NO. EPA-680/4–75–006
Turbulence Modeling and Its Application to Atmospheric Diffusion. Part I: Recent Program Development, Verification, and Application – REF. NO. EPA-600/4–75–016a
Turbulence Modeling and Its Application to Atmospheric Diffusion. Part II: Critical Review of the Use of Invariant Modeling – REF. NO. EPA-600/4–75–016b
Turbulent Bed Cooling Tower — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–027
Turbulent Diffusion in Liquid Jets: Final Report – REF. NO. EPA-660/3–74–004b
Turbulent Diffusion in Liquid Jets: Part I – REF. NO. EPA-660/3–74–004a
U-Tube Aeration – REF. NO. EPA-670/2–73–031
Ultraviolet Disinfection of Activated Sludge Effluent Discharging to Shellfish Waters – REF. NO. EPA-600/2–75–060
Up-Dip Versus Down-Dip Mining: An Evaluation — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–047
Upgrading Wastewater Stabilization Ponds to Meet New Discharge Standards — Abstracted 600/9–75–001a — REF. NO. EPA-670/9–75–004
Urban Stormwater Management and Technology: An Assessment – REF. NO. EPA-670/2–74–040
Urban Stormwater Management Modeling and Decision-Making — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–022
Urban Street Cleaning — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–030
Use of Climatic Data in Design of Soils Treatment Systems — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–018
Use of Domestic Waste Glass for Urban Paving – REF. NO. EPA-670/2–73–038
Use of Domestic Waste Glass for Urban Paving – Summary Report — Abstracted 600/9–75–001b — REF. NO. EPA-670/2–75–053
Use of Environmental Analyses on Wastewater Facilities by Local Government – REF. NO. EPA-600/5–74–015
Use of Leucocyte Metabolism as a Health Effects Indicator – REF. NO. EPA-650/1–74–013
Use of Panelist as Substitutes for Taxicab Drivers in Carbon Monoxide Exposure – REF. NO. EPA-650/1–74–001
Use of Soil Parameters for Describing Pesticide Movement Through Soils — Abstracted 600/9–75–001b — REF. NO. EPA-660/2–75–009
Used Oil Law in the U.S. and Europe – REF. NO. EPA-600/5–74–025
User's Guide for Hiway, A Highway Air Pollution – REF. NO. EPA-650/4–74–008
User's Manual for the APRAC-1A Urban Diffusion Model Computer Program – REF. NO. EPA-650/3–73–001
Utilization of Bark Waste – REF. NO. EPA-670/2–73–005
Utilization of Fibrous Wastes as Sources of Nutrients – REF. NO. EPA-670/2–73–090
Utilization of Trickling Filters for Dual Treatment of Dry and Wet Weather Flows – REF. NO. EPA-670/2–73–071
Vapor-Phase Organic Pollutants – Volatile Hydrocarbons and Oxidation Products – REF. NO. EPA-600/1–75–005
Versatile Gas Filter Correlation Spectrometer – REF. NO. EPA-600/2–75–024
Vinyl Chloride – An Assessment of Emissions Control Techniques and Costs – REF. NO. EPA-650/2–74–097
Virus in Waste, Renovated, and Other Waters – 1973 Literature Abstracts – REF. NO. EPA-670/9–74–005
Virus-In-Water Study of Finished Water from Six Communities – REF. NO. EPA-600/1–75–003

TITLE INDEX

Viruses in Waste Renovated and other Viruses—1974 Literature Abstracts – REF. NO. EPA-670/9–75–007
Viruses in Waste Renovated and Other Viruses – 1972 Literature Abstracts – REF. NO. EPA-670/2–73–003
Volatization of Losses of Pesticides from Soil – REF. NO. EPA-660/2–74–054
Waste Automotive Lubricating Oil Reuse as a Fuel – REF. NO. EPA-600/5–74–032
Waste Citrus Activated Sludge As a Poultry Feed Ingredient — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–75–001
Waste Control and Abatement in the Processing of Sweet Potatoes – REF. NO. EPA-660/2–73–021
Waste Oil Recycling and Disposal – REF. NO. EPA-670/2–74–052
Waste Treatment System for Confined Hog Raising Operations – REF. NO. EPA-660/2–74–047
Waste Water Treatment and Reuse in a Metal Finishing Job Shop – REF. NO. EPA-670/2–74–042
Wastewater Abatement in Canning Vegetables by IQB Blanching – REF. NO. EPA-660/2–74–006
Wastewater Characterization for the Specialty Food Industry – REF. NO. EPA-660/2–74–075
Wastewater Treatment and Reuse By Land Application, Volume I – Summary – REF. NO. EPA-660/2–73–006a
Wastewater Treatment and Reuse By Land Application, Volume II – Summary – REF. NO. EPA-660/2–73–006b
Wastewater Use in the Production of Food and Fiber—Proceedings of Conference held at Oklahoma City, OK March 5–7, 1974 – REF. NO. EPA-660/2–74–041
Water and Waste Management in Poultry Processing – REF. NO. EPA-660/2–74–031
Water Quality Control in Mine Spoils — Upper Colorado River Basin — Abstracted 600/9–75–001c — REF. NO. EPA-670/2–75–048
Water Quality Control Through a Single Crop Agriculture, No. 4 — Abstracted 600/9–75–001c — REF. NO. EPA-660/2–75–026
Water Quality Effect of Diking a Shallow Arid-Region Lake — Abstracted 600/9–75–001a — REF. NO. EPA-660/2–75–007
Water Quality Model for a Conjunctive Surface – Groundwater System – REF. NO. EPA-600/5–74–013
Water Quality Requirements of Aquatic Insects – REF. NO. EPA-660/3–73–004
Water Recycle/Reuse Possibilities: Power Plant Boiler and Cooling System – REF. NO. EPA-660/2–74–089
Water Renovation of Municipal Effluents by Reverse Osmosis — Abstracted 600/9–75–001a — REF. NO. EPA-670/2–75–009
Waterborne Wastes of the Paint and Inorganic Pigments Industries – REF. NO. EPA-670/2–74–030
Weed Harvest and Lake Nutrient Dynamics – REF. NO. EPA-660/3–73–001
Wet Scrubber Liquid Utilization – REF. NO. EPA-650/2–74–108
Wet Systems for Residential Refuse Collection: A Case Study for Springfield, Massachusetts – REF. NO. EPA-670/2–74–038
Wind Tunnel Tests of Negatively Buoyant Plumes – REF. NO. EPA-650/3–74–003
Wood Waste Reuse in Controlled Release Pesticides – REF. NO. EPA-670/2–73–034
World's Air Quality Management Standards: Volume 1 – The Air Quality Management Standards of the World, Including United States Federal Standards – REF. NO. EPA-650/9–75–001a
World's Air Quality Management Standards: Volume 11 – The Air Quality Management Standards of the United States – REF. NO. EPA-650/9–75–001b
WATER RESOURCES: Utilization and Conservation in the Environment – REF. NO. EPA-600/9–75–006
Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations — Abstracted 600/9–75–001c — REF. NO. EPA-660/3–75–021
200 MGD Activated Sludge Plant Removes Phosphorus by Pickle Liquor – REF. NO. EPA-670/2–73–050

PERFORMING ORGANIZATION INDEX

A.P.T., Inc. Riverside, CA – **REF. NO. EPA**-650/2–74–093
A.P.T., Inc. Riverside, CA – **REF. NO. EPA**-650/2–74–112
A.P.T., Inc. Riverside, CA – **REF. NO. EPA**-650/2–74–119a
A.P.T., Inc. San Diego, CA – **REF. NO. EPA**-650/2–74–119b
A.P.T., Inc. San Diego, CA – **REF. NO. EPA**-600/2–75–018
A.P.T., Inc. San Diego, CA – **REF. NO. EPA**-600/2–75–021a
A.P.T,. Inc. Riverside, CA – **REF. NO. EPA**-650/2–73–036
Abcor, Incorporated, Walden Research Division Cambridge, MA – **REF. NO. EPA**-650/2–74–086a
Abcor, Incorporated, Walden Research Division Cambridge, MA – **REF. NO. EPA**-650/2–74–086b
Abcor, Incorporated, Walden Research Division Cambridge, MA – **REF. NO. EPA**-650/2–74–089
Abcor, Incorporated, Walden Research Division Cambridge, MA – **REF. NO. EPA**-650/2–74–105
Abcor, Incorporated, Walden Research Division Cambridge, MA – **REF. NO. EPA**-650/2–74–133
Academy of Natural Sciences of Philadelphia Philadelphia, PA – **REF. NO. EPA**-660/2–75–008
Acurex Corporation Mountain View, CA – **REF. NO. EPA**-600/2–75–046
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–73–003
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–73–044
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–73–045
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–73–046
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–006
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–010
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–011
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–034
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–046
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–75–008
Advanced Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–75–013
Aero Chem Research Laboratory, Inc. Princeton, NJ – **REF. NO. EPA**-650/2–75–069
Aeronautical Research Associates of Princeton, Inc. Princeton, NJ – **REF. NO. EPA**-600/4–75–016a
Aeronautical Research Associates of Princeton, Inc. Princeton, NJ – **REF. NO. EPA**-600/4–75–016b
Aeroneutronics Ford Corporation Newport Beach, CA – **REF. NO. EPA**-600/2–75–024
Aerospace Corporation El Segundo, CA – **REF. NO. EPA**-650/2–74–037a
Aerospace Corporation Los Angeles, CA – **REF. NO. EPA**-650/2–74–051
Aerospace Corporation Los Angeles, CA – **REF. NO. EPA**-650/2–74–059
Aerospace Corporation El Segundo, CA – **REF. NO. EPA**-650/3–74–007
Aerospace Corporation El Segundo, CA – **REF. NO. EPA**-650/2–75–012
Aerospace Corporation El Segundo, CA – **REF. NO. EPA**-650/2–75–023
Aerotherm Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–75–035
Aerotherm/Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–74–067
Aerotherm/Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–74–091
Aerotherm/Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–74–103
Aerotherm/Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–74–123
Aerotherm/Acurex Corporation Mountain View, CA – **REF. NO. EPA**-650/2–75–015
Air and Industrial Hygiene Laboratory Berkeley, CA – **REF. NO. EPA**-650/4–75–014
Air and Industrial Hygiene Laboratory, California State Department of Health Berkeley, CA – **REF. NO. EPA**-650/4–74–014
Air Pollution Control Division, ORD, EPA Washington, DC – **REF. NO. EPA**-600/2–74–008
Air Pollution Technology, Inc. San Diego, CA – **REF. NO. EPA**-650/2–75–058a
Airesearch Manufacturing Company of Arizona, Inc. Phoenix, AZ – **REF. NO. EPA**-650/2–75–055
Alabama A&M College Normal, AL – **REF. NO. EPA**-660/2–74–033
Alan M. Voorhees and Associates McLean, VA – **REF. NO. EPA**-600/5–74–001
Alaska, University of Fairbanks, AK – **REF. NO. EPA**-660/3–73–018
Alaska, University of Fairbanks, AK – **REF. NO. EPA**-650/4–75–012
Alaska, University of Fairbanks, AK – **REF. NO. EPA**-660/3–75–026
Allied Chemical Corporation Morristown, NJ – **REF. NO. EPA**-650/2–74–040
American Crystal Sugar Company Denver, CO – **REF. NO. EPA**-660/2–74–093
American Dehydrators Association Mission, KS – **REF. NO. EPA**-650/2–74–007
American Distilling Company Pekin, IL – **REF. NO. EPA**-660/2–74–014
American Iron and Steel Institute New York, NY – **REF. NO. EPA**-650/2–74–022
American Oil Company Yorktown, VA – **REF. NO. EPA**-660/2–75–025
American Public Works Association Chicago, IL – **REF. NO. EPA**-670/2–74–026
American Public Works Association Chicago, IL – **REF. NO. EPA**-670/2–74–039
American Public Works Association Chicago, IL – **REF. NO. EPA**-600/2–75–062
American Public Works Association Chicago, IL – **REF. NO. EPA**-670/2–75–011
American Society of Planning Officials Chicago, IL – **REF. NO. EPA**-600/5–75–005
American Society of Planning Officials Chicago, IL – **REF. NO. EPA**-600/5–75–009

PERFORMING ORGANIZATION INDEX

American Standards, Inc. New Brunswick, NJ – **REF. NO. EPA**-670/2–75–002
American Water Works Association Research Foundation New York, NY – **REF. NO. EPA**-660/2–73–020
Ames Laboratory, U.S. Atomic Energy Commission, Metallurgy Division, Iowa State University Ames, IA – **REF. NO. EPA**-670/2–73–091
Amoco Oil Company Naperville, IL – **REF. NO. EPA**-650/2–75–042
Anaconda American Brass Company Waterbury, CT – **REF. NO. EPA**-670/2–74–008
Anaconda Company Waterbury, CT – **REF. NO. EPA**-670/2–75–029
Analytical Research Laboratories, Inc. Monrovia, CA – **REF. NO. EPA**-650/4–74–050
Analytical Research Laboratories, Inc. Monrovia, CA – **REF. NO. EPA**-650/2–75–050
Anderson 2000, Inc. Atlanta, GA – **REF. NO. EPA**-650/2–74–014
Anheuser Busch St. Louis, MO – **REF. NO. EPA**-660/2–74–059
Applied Technology Corporation Pittsburgh, PA – **REF. NO. EPA**-670/2–74–001
Arctic Environmental Research Laboratory, EPA Fairbanks, AK – **REF. NO. EPA**-660/2–73–005
Arctic Environmental Research Laboratory, EPA College, AK – **REF. NO. EPA**-660/2–74–070
Arctic Environmental Research Laboratory, EPA College, AK – **REF. NO. EPA**-660/3–74–008
Arctic Environmental Research Laboratory, EPA College, AK – **REF. NO. EPA**-660/3–74–009
Arctic Environmental Research Laboratory, EPA College, AK – **REF. NO. EPA**-660/3–75–019
Arctic Environmental Research Laboratory, EPA College, AK – **REF. NO. EPA**-660/3–75–020
Argonne National Laboratory Argonne, IL – **REF. NO. EPA**-650/2–74–057
Argonne National Laboratory Argonne, IL – **REF. NO. EPA**-650/2–74–104
Arizona, University of Tucson, AZ – **REF. NO. EPA**-600/2–75–075
Arkansas, University of, College of Engineering Fayetteville, AR – **REF. NO. EPA**-660/2–74–044
Armageddon Chemical Company Durham, NC – **REF. NO. EPA**-650/4–74–010
Arnold Research Organization, Inc. Arnold Air Force Station, TN – **REF. NO. EPA**-650/2–73–034
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-650/2–73–023
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-650/2–73–025
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-650/2–73–032
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-670/2–74–033
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-670/2–74–045
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-670/2–74–086
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-670/5–74–003
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-600/2–75–016
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-650/2–75–031
Arthur D. Little, Inc. Cambridge, MA – **REF. NO. EPA**-670/2–75–024
Atlantic Richfield Company Carson, CA – **REF. NO. EPA**-660/2–75–020
Auburn University Auburn, AL – **REF. NO. EPA**-660/3–73–005
Autotrol Corporation Milwaukee, WI – **REF. NO. EPA**-670/2–74–050
ABT Associates, Inc. Cambridge, MA – **REF. NO. EPA**-600/5–74–018
ABT Associates, Inc. Cambridge, MA – **REF. NO. EPA**-670/5–75–001
ARO Inc. Arnold Air Force Station, TN – **REF. NO. EPA**-650/2–74–070
Babcock and Wilson Company Alliance, OH – **REF. NO. EPA**-650/2–73–015
Babcock and Wilson Company Alliance, OH – **REF. NO. EPA**-650/2–74–002a
Babcock and Wilson Company Alliance, OH – **REF. NO. EPA**-650/2–74–002b
Bacardi Company San Juan, PR – **REF. NO. EPA**-660/2–74–074
Baird-Atomic, Inc. Bedford, MA – **REF. NO. EPA**-670/4–74–004
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–73–001
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–73–002
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–73–032
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/9–73–035
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/2–74–001
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/5–74–002
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/5–74–005
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/5–74–016
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–026
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–032
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–048
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–052
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–087
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–099
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–74–100
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/3–74–002
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/4–74–009
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–74–014
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–74–083
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–74–084
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/4–74–003a
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/4–74–003b
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/9–74–006
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/2–75–066

PERFORMING ORGANIZATION INDEX

Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/2–75–067
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/2–75–069a
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/2–75–073
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-600/4–75–009
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–75–034
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–75–038
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–75–051a
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–75–063
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/2–75–064
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/3–75–002
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-650/3–75–010
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–75–018
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–75–055
Battelle Columbus Laboratories Columbus, OH – **REF. NO. EPA**-670/2–75–058
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-600/5–73–004
Battelle Memorial Institute Richland, WA – **REF. NO. EPA**-670/2–73–078
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-650/2–74–011
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-650/3–74–011
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-660/2–74–004
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-660/2–74–048
Battelle Memorial Institute Richland, WA – **REF. NO. EPA**-670/2–75–012
Battelle Memorial Institute Columbus, OH – **REF. NO. EPA**-670/2–75–049
Battelle Pacific Northwest Laboratories Richland, WA – **REF. NO. EPA**-650/2–74–085a
Battelle Pacific Northwest Laboratories Richland, WA – **REF. NO. EPA**-650/2–74–085b
Battelle Pacific Northwest Laboratories Richland, WA – **REF. NO. EPA**-650/3–74–005
Battelle Pacific Northwest Laboratories Richland, WA – **REF. NO. EPA**-670/2–75–014
Bechtel Corporation San Francisco, CA – **REF. NO. EPA**-650/2–73–013
Bechtel Corporation San Francisco, CA – **REF. NO. EPA**-650/2–74–010
Bechtel Corporation San Francisco, CA – **REF. NO. EPA**-600/2–75–050
Bechtel Corporation San Francisco, CA – **REF. NO. EPA**-650/2–75–047
Beckman Instruments, Inc. Anaheim, CA – **REF. NO. EPA**-650/2–74–056
Beet Sugar Development Foundation Fort Collins, CO – **REF. NO. EPA**-660/2–74–028
Bemidji State College Bemidji, MN – **REF. NO. EPA**-660/2–75–026
Bendix Research Laboratories Southfield, MI – **REF. NO. EPA**-650/2–73–010
Bendix Research Laboratories Southfield, MI – **REF. NO. EPA**-650/2–74–006
Bennett College Greensboro, NC – **REF. NO. EPA**-660/2–75–016
Beychok, Milton R., Consulting Engineer Irvine, CA – **REF. NO. EPA**-660/2–75–011
Biospherics, Inc. Rockville, MD – **REF. NO. EPA**-600/2–75–004
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050a
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050b
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050c
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050d
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050e
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050f
Black & Veatch Consulting Engineers Kansas City, MO – **REF. NO. EPA**-670/2–75–050g
Black Hill Conservancy Sub-District Rapid City, SD – **REF. NO. EPA**-670/2–73–088
Black, Crow and Eidsness, Inc. Montgomery, AL – **REF. NO. EPA**-660/2–75–006
Boating Industry Association Chicago, IL – **REF. NO. EPA**-670/2–75–064
Boeing Commercial Airplane Company Seattle, WA – **REF. NO. EPA**-660/2–73–023
Booz-Allen Applied Research, Inc. Bethesda, MD – **REF. NO. EPA**-670/2–73–013
Booz-Allen Applied Research, Inc. Bethesda, MD – **REF. NO. EPA**-670/2–73–014
Booz-Allen Applied Research, Inc. Bethesda, MD – **REF. NO. EPA**-670/2–73–015
Booz-Allen Applied Research, Inc. Bethesda, MD – **REF. NO. EPA**-670/2–73–016
Booz-Allen Public Administration Services, Inc. Washington, DC – **REF. NO. EPA**-600/5–75–011
Bowdoin College Brunswick, ME – **REF. NO. EPA**-600/5–74–029
Bowling Green State University Bowling Green, OH – **REF. NO. EPA**-670/4–74–005
Brier, Glenn W., Consultant Fort Collins, CO – **REF. NO. EPA**-650/4–75–010
Brigham Young University Provo, UT – **REF. NO. EPA**-660/2–75–007
Brown and Caldwell, Construction Engineers Walnut Creek, CA – **REF. NO. EPA**-600/2–75–038
Byrne Engineering Corporation New Orleans, LA – **REF. NO. EPA**-670/2–73–067
C. F. and T. Steel Corporation Pueblo, CO – **REF. NO. EPA**-660/2–74–050
California Air Resources Board, State of El Monte, CA – **REF. NO. EPA**-650/4–74–052
California Department of Health Berkeley, CA – **REF. NO. EPA**-650/1–75–001
California Department of Health, State of Berkeley, CA – **REF. NO. EPA**-650/2–75–036
California Institute of Technology Pasadena, CA – **REF. NO. EPA**-660/3–73–010
California Public Affairs, Center for Claremont, CA – **REF. NO. EPA**-600/5–74–006
California Public Affairs, Center for Claremont, CA – **REF. NO. EPA**-600/5–74–023
California State College Turlock, CA – **REF. NO. EPA**-650/2–75–043

PERFORMING ORGANIZATION INDEX

California State University Los Angeles, CA – **REF. NO. EPA**-600/5-75-017
California, University of Irvaine, CA – **REF. NO. EPA**-660/3-73-015
California, University of Santa Cruz, CA – **REF. NO. EPA**-600/5-74-019
California, University of Berkeley, CA – **REF. NO. EPA**-650/4-74-004
California, University of Riverside, CA – **REF. NO. EPA**-660/2-74-054
California, University of Berkeley, CA – **REF. NO. EPA**-660/3-74-016
California, University of Davis, CA – **REF. NO. EPA**-660/3-74-034
California, University of Riverside, CA – **REF. NO. EPA**-670/2-74-005
California, University of Berkeley, CA – **REF. NO. EPA**-670/5-74-007
California, University of Berkeley, CA – **REF. NO. EPA**-670/5-74-008
California, University of Berkeley, CA – **REF. NO. EPA**-670/5-74-009
California, University of Los Angeles, CA – **REF. NO. EPA**-600/5-75-018
California, University of Santa Barbara, CA – **REF. NO. EPA**-650/3-75-006
California, University of Davis, CA – **REF. NO. EPA**-660/2-75-002
California, University of Santa Barbara, CA – **REF. NO. EPA**-670/2-75-003
California, University of Santa Barbara, CA – **REF. NO. EPA**-670/2-75-044
California, University of Santa Barbara, CA – **REF. NO. EPA**-670/2-75-059
Calspan Corporation Buffalo, NY – **REF. NO. EPA**-650/3-73-002
Calspan Corporation Buffalo, NY – **REF. NO. EPA**-650/2-75-068
Calspan Corporation Buffalo, NY – **REF. NO. EPA**-650/3-75-007
Calspan Corporation Buffalo, NY – **REF. NO. EPA**-670/2-75-042
Center for the Environment and Man, Inc. Hartford, CT – **REF. NO. EPA**-650/4-73-001
Chase, Rosen and Wallace, Inc. Alexandria, VA – **REF. NO. EPA**-600/5-73-013
Chemical Construction Corporation New York, NY – **REF. NO. EPA**-600/2-75-057
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-74-015
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-74-128
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/3-74-008
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/3-74-009
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/3-74-010
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-75-003
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-75-025
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/3-75-001
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/4-75-006
Chemistry and Physics Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/4-75-020
Chemistry and Physics Laboratory, EPA, Research Triangle Park, NC – **REF. NO. EPA**-650/2-74-046b
Chicago, University of Chicago, IL – **REF. NO. EPA**-600/5-75-003
Chino Basin Municipal Water District Cucamonga, CA – **REF. NO. EPA**-660/2-74-034
Cincinnati, University of Cincinnati, OH – **REF. NO. EPA**-650/2-75-067
City of Chino Chino, CA – **REF. NO. EPA**-670/2-75-037
Clemson University, Environmental Systems Engineering Department Clemson, NC – **REF. NO. EPA**-670/2-73-061
Colorado State University Fort Collins, CO – **REF. NO. EPA**-660/2-73-017
Colorado State University Fort Collins, CO – **REF. NO. EPA**-650/2-74-034
Colorado State University Fort Collins, CO – **REF. NO. EPA**-650/3-74-003
Colorado State University Fort Collins, CO – **REF. NO. EPA**-660/2-74-049
Colorado State University Fort Collins, CO – **REF. NO. EPA**-660/2-74-052
Colorado State University Fort Collins, CO – **REF. NO. EPA**-660/2-74-084
Colorado State University Fort Collins, CO – **REF. NO. EPA**-670/2-75-048
Colorado State University, Department of Avian Science Fort Collins, CO – **REF. NO. EPA**-670/2-73-009
Colorado, University of Boulder, CO – **REF. NO. EPA**-600/9-75-007
Columbia University, Division of Environmental Health Sciences New York City, NY – **REF. NO. EPA**-650/1-74-001
Combustion Engineering Inc. Windsor, CT – **REF. NO. EPA**-650/2-75-052
Combustion Engineering, Inc. Windsor, CT – **REF. NO. EPA**-650/2-73-005
Combustion Engineering, Inc. Windsor, CT – **REF. NO. EPA**-650/2-73-005a
Combustion Engineering, Inc. Windsor, CT – **REF. NO. EPA**-650/2-73-005b
Commonwealth of Pennsylvania Harrisburg, PA – **REF. NO. EPA**-600/5-74-022
Cone Mills Corporation Greensboro, NC – **REF. NO. EPA**-660/2-74-039
Consoer, Townsend, and Associates Milwaukee, WI – **REF. NO. EPA**-600/2-75-071
Consolidation Coal Company, Incorporated, Research Division Library, PA – **REF. NO. EPA**-650/2-73-049
Consultec, Inc. Rockville, MD – **REF. NO. EPA**-670/2-73-069
Continental Can Company Hodge, LA – **REF. NO. EPA**-660/2-74-008
Control Data Corporation Minneapolis, MN – **REF. NO. EPA**-650/4-74-051
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-012
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-029
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-031
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-038
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-046
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-73-053
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2-74-003

PERFORMING ORGANIZATION INDEX

Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2–74–126a
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2–74–126b
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2–75–010a
Control Systems Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/2–75–010b
Copley International Corporation La Jolla, CA – **REF. NO. EPA**-650/5–73–001
Cornell University Ithaca, NY – **REF. NO. EPA**-660/2–74–063
Cornell University Ithaca, NY – **REF. NO. EPA**-660/2–75–019
Cottrell Environmental Systems, Inc. Division of Research-Cottrell, Inc. Bound Brook, NJ – **REF. NO. EPA**-650/2–74–053
Crown Mine Drainage Control Field Site, EPA Rivesville, WV – **REF. NO. EPA**-670/2–73–100
Crown Zellerbach Corporation Camas, WA – **REF. NO. EPA**-660/2–73–028
Culligan International Company Northbrook, IL – **REF. NO. EPA**-660/2–74–007
Curran Associates, Inc. Northampton, MA – **REF. NO. EPA**-670/2–74–037
Curran Associates, Inc. Northampton, MA – **REF. NO. EPA**-670/2–74–038
Curran Associates, Inc. Northampton, MA – **REF. NO. EPA**-670/2–74–065
Curran Associates, Inc. Northampton, MA – **REF. NO. EPA**-670/2–74–066
Curran Associates, Inc. Northampton, MA – **REF. NO. EPA**-670/2–74–068
Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA – **REF. NO. EPA**-670/2–73–054
Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA – **REF. NO. EPA**-670/2–73–081
Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA – **REF. NO. EPA**-670/2–74–003
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–040
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–058
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–073
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–075
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–033
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–037
D.C. Pilot Plant, EPA, and D.C. Department of Environmental Services Washington, DC – **REF. NO. EPA**-670/2–73–070
Dartmouth College Hanover, NH – **REF. NO. EPA**-670/2–73–011
Dartmouth College Hanover, NH – **REF. NO. EPA**-600/5–74–027
Data Metric Corporation McLean, VA – **REF. NO. EPA**-600/5–73–011
David M. Dornbusch and Company San Francisco, CA – **REF. NO. EPA**-600/5–73–005
Dayton Research Institute, University of Dayton, OH – **REF. NO. EPA**-670/2–75–033a
Dayton Research Institute, University of Dayton, OH – **REF. NO. EPA**-670/2–75–033b
Dayton Research Institute, University of Dayton, OH – **REF. NO. EPA**-670/2–75–033c
Dayton Research Institute, University of Dayton, OH – **REF. NO. EPA**-670/2–75–033d
De Laureal Engineers, Inc. New Orleans, LA – **REF. NO. EPA**-670/2–73–024
De Laureal Engineers, Inc. New Orleans, LA – **REF. NO. EPA**-670/2–73–074
Delaware River Basin Commission Trenton, NJ – **REF. NO. EPA**-660/2–73–038
DelMonte Corporation San Francisco, CA – **REF. NO. EPA**-660/2–74–092
Denver, University of Denver, CO – **REF. NO. EPA**-670/2–73–080
Detroit Metro Water Department Detroit, MI – **REF. NO. EPA**-670/2–75–020
Development Planning and Research Associates, Inc. Manhattan, KS – **REF. NO. EPA**-600/5–73–008a
Development Planning and Research Associates, Inc. Manhattan, KS – **REF. NO. EPA**-600/5–73–008b
Development Planning and Research Associates, Inc. Manhattan, KS – **REF. NO. EPA**-600/5–74–014
Development Planning and Research Associates, Inc. Manhattan, KS – **REF. NO. EPA**-600/5–74–028
DePaul University Chicago, IL – **REF. NO. EPA**-600/3–75–005
Diamond Shamrock Corporation, T. R. Evans Research Center Painesville, OH – **REF. NO. EPA**-600/2–74–006
Dominque, Szabo and Associates, Inc. Lafayette, LA – **REF. NO. EPA**-660/2–74–061
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-660/3–73–006
Dow Chemical Company Midland, MI – **REF. NO. EPA**-650/2–74–060
Dow Chemical Company Midland, MI – **REF. NO. EPA**-650/2–74–061
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-660/3–74–019
Dow Chemical Company Midland, MI – **REF. NO. EPA**-600/2–75–051
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-650/2–75–032a
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-650/2–75–032b
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-650/2–75–032c
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-650/2–75–032d
Dow Chemical Company Freeport, TX – **REF. NO. EPA**-660/2–75–021
Drexel University, Environmental Engineering Program Philadelphia, PA – **REF. NO. EPA**-670/2–73–057
Dugway Proving Ground Dugway, UT – **REF. NO. EPA**-680/4–75–003
E.D. Appelonia Consulting Engineers, Inc. Pittsburgh, PA – **REF. NO. EPA**-670/2–73–081
East Central Oklahoma State University Ada, OK – **REF. NO. EPA**-660/2–75–003
East Central State College Ada, OK – **REF. NO. EPA**-660/2–74–024
East Tennessee State University Johnson City, TN – **REF. NO. EPA**-670/2–75–023
Eastern Michigan University Ypsilanti, MI – **REF. NO. EPA**-660/3–74–029
Eastern Municipal Water District Hemet, CA – **REF. NO. EPA**-670/2–74–077
Eastern Municipal Water District Hemet, CA – **REF. NO. EPA**-670/2–75–027
Ecotrol, Inc. Columbia, MD – **REF. NO. EPA**-670/2–74–023
Edison Water Quality Laboratory, EPA Edison, NJ – **REF. NO. EPA**-670/2–73–059

PERFORMING ORGANIZATION INDEX

Edison Water Quality Laboratory, EPA Edison, NJ – **REF. NO. EPA-670/2-73-077**
Elson T. Killam Associates, Inc. Milburn, NJ – **REF. NO. EPA-670/2-73-071**
Engineering Science, Inc. McLean, VA – **REF. NO. EPA-650/2-74-077**
Engineering Science, Inc. Berkeley, CA – **REF. NO. EPA-600/2-75-033**
Engineering Science, Inc. McLean, VA – **REF. NO. EPA-650/2-75-026a**
Engineering Science, Inc. McLean, VA – **REF. NO. EPA-650/2-75-026b**
Engineering Science, Inc. Berkeley, CA – **REF. NO. EPA-670/2-75-037**
Entropy Environmentalists, Inc. Research Triangle Park, NC – **REF. NO. EPA-600/2-75-052**
Envirex, Inc. Milwaukee, WI – **REF. NO. EPA-660/2-73-037**
Envirex, Inc. Milwaukee, WI – **REF. NO. EPA-670/2-74-025**
Enviro Plan, Inc. College Park, MD – **REF. NO. EPA-600/2-73-004**
Enviro-Systems and Research, Inc. Roanoke, VA – **REF. NO. EPA-650/2-74-058**
Enviro-Systems and Research, Inc. Roanoke, VA – **REF. NO. EPA-650/2-74-058a**
Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA – **REF. NO. EPA-660/2-74-036**
Environics, Inc. Huntington Beach, CA – **REF. NO. EPA-670/2-75-028**
Environmental Control Technology Corporation Ann Arbor, MI – **REF. NO. EPA-670/2-75-062**
Environmental Dynamics, Inc. Los Angeles, CA – **REF. NO. EPA-600/5-75-014**
Environmental Impact Center Newton, MA – **REF. NO. EPA-600/5-75-002**
Environmental Impact Center Newton, MA – **REF. NO. EPA-600/5-75-013**
Environmental Law Institute Washington, DC – **REF. NO. EPA-600/5-74-025**
Environmental Law Institute Washington, DC – **REF. NO. EPA-600/5-74-026**
Environmental Measurements, Inc. San Francisco, CA – **REF. NO. EPA-600/2-75-077**
Environmental Measurements, Inc. San Francisco, CA – **REF. NO. EPA-650/2-75-005a**
Environmental Measurements, Inc. San Francisco, CA – **REF. NO. EPA-650/2-75-005b**
Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-600/3-75-014**
Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/4-75-007**
Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/4-75-008**
Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-600/4-75-010**
Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/4-75-011**
Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/4-75-012**
Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-600/4-75-013**
Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-600/4-75-014**
Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-600/4-75-015**
Environmental Quality Systems, Inc. Rockville, MD – **REF. NO. EPA-670/2-74-013**
Environmental Quality Systems, Inc. Rockville, MD – **REF. NO. EPA-670/2-74-097**
Environmental Quality Systems, Inc. Rockville, MD – **REF. NO. EPA-670/2-75-056**
Environmental Research and Technology, Inc. Concord, MA – **REF. NO. EPA-600/3-75-003a**
Environmental Research and Technology, Inc. Concord, MA – **REF. NO. EPA-600/3-75-003b**
Environmental Research Institute of Michigan Ypsilanti, MI – **REF. NO. EPA-660/3-74-028**
Environmental Research Laboratory, EPA Narragansett, RI – **REF. NO. EPA-600/3-75-008**
Environmental Research Laboratory, EPA Duluth, MN – **REF. NO. EPA-600/3-75-012**
Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-600/3-75-015**
Environmental Science and Engineering, Inc. Gainesville, FL – **REF. NO. EPA-650/2-73-007**
Environmental Science and Engineering, Inc. Gainesville, FL – **REF. NO. EPA-670/2-75-063**
Environmental Science Research Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-600/9-75-008**
Environmental Studies Division, EPA Washington, DC – **REF. NO. EPA-600/5-75-011**
Environmental Systems Corporation Knoxville, TN – **REF. NO. EPA-660/2-73-011**
Environmental Systems Corporation Knoxville, TN – **REF. NO. EPA-650/2-75-060**
Environmental Systems Laboratory, Inc. Sunnyvale, CA – **REF. NO. EPA-660/2-73-003**
Environmental Systems Laboratory, Inc. Sunnyvale, CA – **REF. NO. EPA-650/4-74-043**
Esso Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-73-039**
Esso Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-001**
Esso Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009a**
Esso Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009b**
Esso Research and Engineering Company Berkshire, England – **REF. NO. EPA-650/2-74-109**
Esso Research and Engineering Company Linden, NJ – **REF. NO. EPA-670/2-74-004**
Eugene Water and Electric Board Eugene, OR – **REF. NO. EPA-660/2-74-011**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009c**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009d**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009e**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009f**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009g**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009h**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009i**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009j**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009k**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-009l**
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA-650/2-74-066**

PERFORMING ORGANIZATION INDEX

Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA**-650/2-74-069
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA**-600/2-75-053
Exxon Research and Engineering Company Linden, NJ – **REF. NO. EPA**-650/2-75-054
EG&G Washington Analytical Services Center, Inc. Rockville, MD – **REF. NO. EPA**-600/2-75-065
EG&G, Inc. Rockville, MD – **REF. NO. EPA**-600/2-75-027
Family and Foods, Inc. Denison, IA – **REF. NO. EPA**-660/2-74-027
Fecker Systems, Owens-Illinois, Inc. Pittsburgh, PA – **REF. NO. EPA**-650/2-75-008
Fenix and Scisson, Inc. Tulsa, OK – **REF. NO. EPA**-600/2-75-040
Firestone Synthetic Rubber and Latex Company Lake Charles, Louisiana – **REF. NO. EPA**-660/2-73-018
Fitzsimmons Steel Company Youngstown, OH – **REF. NO. EPA**-660/2-73-032
Florida Atlantic University Boca Raton, FL – **REF. NO. EPA**-660/3-74-007
Florida Technological University Orlando, FL – **REF. NO. EPA**-670/2-74-072
Florida, University of Gainesville, FL – **REF. NO. EPA**-660/3-73-002
Florida, University of Gainesville, FL – **REF. NO. EPA**-670/2-73-063
Florida, University of Gainesville, FL – **REF. NO. EPA**-600/5-74-013
Florida, University of Gainesville, FL – **REF. NO. EPA**-660/2-74-021
Florida, University of Gainesville, FL – **REF. NO. EPA**-670/2-75-017
Florida, University of Gainesville, FL – **REF. NO. EPA**-670/2-75-022
Flow Research, Inc. Kent, WA – **REF. NO. EPA**-650/4-74-044
Flynn and Emrich Company Baltimore, MD – **REF. NO. EPA**-650/2-74-004
Ford Motor Company Dearborn, MI – **REF. NO. EPA**-650/2-74-076
Fort Valley State College Fort Valley, GA – **REF. NO. EPA**-600/9-75-006
Foster D. Snell, Inc. Florham Park, NJ – **REF. NO. EPA**-670/2-73-062
Foster D. Snell, Inc. Florham Park, NJ – **REF. NO. EPA**-650/2-74-106
Foster-Miller Associates, Inc. Waltham, MA – **REF. NO. EPA**-670/2-74-019
Foster-Miller Associates, Inc. Waltham, MA – **REF. NO. EPA**-670/2-74-020
Foster-Miller Associates, Inc. Waltham, MA – **REF. NO. EPA**-670/2-74-021
Fram Corporation Pawtucket, RI – **REF. NO. EPA**-660/2-74-039
Franklin Institute Research Laboratories Philadelphia, PA – **REF. NO. EPA**-650/2-73-016
Franklin Institute Research Laboratories Philiadelphia, PA – **REF. NO. EPA**-600/2-74-005
Franklin Institute Research Laboratories Philadelphia, PA – **REF. NO. EPA**-600/2-74-007
Franklin Institute Research Laboratories Philadelphia, PA – **REF. NO. EPA**-600/2-75-005
Franklin Institute Research Laboratories Philadelphia, PA – **REF. NO. EPA**-650/2-75-029
FMC Corporation Englewood, CO – **REF. NO. EPA**-600/2-75-035
FMC Corporation Itasca, IL – **REF. NO. EPA**-670/2-75-045
FMC Corporation, Advanced Products Division San Jose, CA – **REF. NO. EPA**-670/2-74-056
Gainesville, City of Gainesville, FL – **REF. NO. EPA**-660/2-74-055
General American Transportation Corporation Niles, IL – **REF. NO. EPA**-670/2-74-043
General American Transportation Corporation Niles, IL – **REF. NO. EPA**-670/2-75-007
General Dynamics Corporation San Diego, CA – **REF. NO. EPA**-650/2-73-026
General Dynamics Corporation Groton, CT – **REF. NO. EPA**-670/2-74-071
General Electric Company Philadelphia, PA – **REF. NO. EPA**-650/2-74-029
General Electric Company Pittsfield, MA – **REF. NO. EPA**-650/2-74-046a
General Electric Company Pittsfield, MA – **REF. NO. EPA**-650/2-74-046b
General Electric Company Philadelphia, PA – **REF. NO. EPA**-660/3-74-022
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-600/4-73-001a
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-600/4-73-001b
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-600/4-74-001
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-680/4-74-002
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-680/4-74-003
General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA – **REF. NO. EPA**-680/4-75-008
General Electric Company, Space Sciences Laboratory Philadelphia, PA – **REF. NO. EPA**-650/2-73-040
Geomet, Inc. Rockville, MD – **REF. NO. EPA**-650/2-73-052
Geomet, Inc. Gaithersburg, MD – **REF. NO. EPA**-650/4-74-049
Geomet, Inc. Pomona, CA – **REF. NO. EPA**-650/2-75-028
Geomet, Inc. Gaithersburg, MD – **REF. NO. EPA**-650/4-75-018a
Geomet, Inc. Gaithersburg, MD – **REF. NO. EPA**-650/4-75-018b
Georgetown University Washington, DC – **REF. NO. EPA**-600/5-74-020
Georgia Institute of Technology Atlanta, GA – **REF. NO. EPA**-600/2-75-029
Georgia Institute of Technology Atlanta, GA – **REF. NO. EPA**-600/2-75-043
Georgia Institute of Technology Atlanta, GA – **REF. NO. EPA**-660/2-75-017
Georgia Pacific Corporation Bellingham, WA – **REF. NO. EPA**-660/2-74-086
Georgia State University Atlanta, GA – **REF. NO. EPA**-660/3-75-001
Georgia, University of Athens, GA – **REF. NO. EPA**-660/3-73-016
Georgia, University of Athens, GA – **REF. NO. EPA**-660/3-73-022
Georgia, University of Athens, GA – **REF. NO. EPA**-660/3-73-025
Georgia, University of Athens, GA – **REF. NO. EPA**-660/2-74-064
Georgia, University of Athens, GA – **REF. NO. EPA**-660/4-75-002

PERFORMING ORGANIZATION INDEX

Geraghty and Miller, Inc. Port Washington, NY – **REF. NO. EPA-600/4-73-001a**
Geraghty and Miller, Inc. Port Washington, NY – **REF. NO. EPA-660/2-74-056**
Geraghty and Miller, Inc. Port Washington, NY – **REF. NO. EPA-660/3-75-018**
Gillette Research Institute Rockville, MD – **REF. NO. EPA-670/2-73-052**
Gillette Research Institute Rockville, MD – **REF. NO. EPA-600/2-74-003**
Gold Kist, Inc. Durham, NC – **REF. NO. EPA-660/2-74-031**
Gram/Phillips Associates, Inc. Water District Calabasas, CA – **REF. NO. EPA-660/2-73-022**
Grand Rapids, City of Grand Rapids, MI – **REF. NO. EPA-670/2-73-103**
Grandview Lot Owners Association Columbus, IN – **REF. NO. EPA-600/2-75-072**
Greene County Sanitary Engineering Department Xenia, OH – **REF. NO. EPA-600/2-75-039**
Grosse Ile Laboratory, EPA Grosse Ile, MI – **REF. NO. EPA-660/3-73-021**
Grumman Aerospace Corporation Bethpage, NY – **REF. NO. EPA-660/2-73-024**
Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL – **REF. NO. EPA-660/3-74-013**
Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL – **REF. NO. EPA-660/3-74-024**
Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL – **REF. NO. EPA-660/3-75-001**
Gulf Breeze Environmental Research Laboratory, EPA Gulf Breeze, FL – **REF. NO. EPA-660/3-75-035**
Gulf Environmental Systems Company San Diego, CA – **REF. NO. EPA-670/2-75-009**
Gulf South Research Institute Baton Rouge, LA – **REF. NO. EPA-670/2-73-021**
Gulf South Research Institute New Iberia, LA – **REF. NO. EPA-650/2-74-068**
Gulf South Research Institute New Orleans, LA – **REF. NO. EPA-670/1-75-001**
Gulf Southern Research Institute for Pharmaceutical Associates Washington, DC – **REF. NO. EPA-670/2-74-057**
GCA Corporation Bedford, MA – **REF. NO. EPA-600/5-74-032**
GCA Corporation Bedford, MA – **REF. NO. EPA-650/2-74-036**
GCA Corporation Bedford, MA – **REF. NO. EPA-650/2-74-043**
GCA Corporation Bedford, MA – **REF. NO. EPA-650/2-74-082a**
GCA Corporation Bedford, MA – **REF. NO. EPA-600/2-75-013a**
GCA Corporation Bedford, MA – **REF. NO. EPA-600/2-75-054**
GCA Corporation Bedford, MA – **REF. NO. EPA-650/2-75-009**
GCA Corporation Bedford, MA – **REF. NO. EPA-650/2-75-024a**
GCA/Technology Division Bedford, MA – **REF. NO. EPA-650/2-75-059**
Hancock Company Bay St. Louis, MS – **REF. NO. EPA-670/2-74-073**
Harriman Utility Board Harriman, TN – **REF. NO. EPA-660/2-73-010**
Harvard University Cambridge, MA – **REF. NO. EPA-600/1-75-002**
Harvard University School of Public Health Boston, MA – **REF. NO. EPA-670/2-73-017**
Harvard University, Guggenheim Center for Aerospace Health and Safety, Boston, MA – **REF. NO. EPA-650/1-74-006**
Hatfield Township Municipal Authority Colmar, PA – **REF. NO. EPA-600/2-75-030**
Health Effects Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/1-75-003**
Hittman Associates, Inc. Columbia, MD – **REF. NO. EPA-600/2-73-002**
Hittman Associates, Inc. Columbia, MD – **REF. NO. EPA-660/2-73-004**
Hittman Associates, Inc. Columbia, MD – **REF. NO. EPA-660/2-73-035**
Hittman Associates, Inc. Columbia, MD – **REF. NO. EPA-660/2-74-072**
Hittman Associates, Inc. Columbia, MD – **REF. NO. EPA-660/2-74-073**
Hoerner Waldorf Corporation St. Paul, MN – **REF. NO. EPA-650/2-74-071a**
Hoerner Waldorf Corporation St. Paul, MN – **REF. NO. EPA-650/2-74-071b**
Holywood, City of Holywood, FL – **REF. NO. EPA-600/2-75-049**
Homer Hoyt Institute Washington, DC – **REF. NO. EPA-600/5-73-012a**
Homer Hoyt Institute Washington, DC – **REF. NO. EPA-600/5-73-012b**
Homer Hoyt Institute Washington, DC – **REF. NO. EPA-600/5-73-012c**
Homer Hoyt Institute Washington, DC – **REF. NO. EPA-600/5-73-012d**
Homer Hoyt Institute Washington, DC – **REF. NO. EPA-600/5-73-012e**
Hope College Holland, MI – **REF. NO. EPA-660/2-73-008**
Houston Research, Inc. Houston, TX – **REF. NO. EPA-600/2-75-061**
Human Resources Research Organization Columbus, GA – **REF. NO. EPA-670/2-73-086**
Human Studies Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/1-74-004**
Hydrocarbon Research, Inc. Trenton, NJ – **REF. NO. EPA-650/2-73-041**
Hydrocarbon Research, Inc. Trenton, NJ – **REF. NO. EPA-650/2-73-041a**
Hydrocarbon Research, Inc. Trenton, NJ – **REF. NO. EPA-670/2-73-066**
Hydrocomp, Inc. Palo Alto, CA – **REF. NO. EPA-660/2-74-013**
Idaho, University of Moscow, ID – **REF. NO. EPA-660/3-73-017**
Illinois Environmental Protection Agency Chicago, IL – **REF. NO. EPA-660/3-74-002**
Illinois Institute of Technology Chicago, IL – **REF. NO. EPA-600/2-74-009a**
Illinois Institute of Technology Chicago, IL – **REF. NO. EPA-600/2-74-009b**
Illinois Institute of Technology Chicago, IL – **REF. NO. EPA-600/2-74-009c**
Illinois State Geological Survey Urbana, IL – **REF. NO. EPA-650/2-73-044**
Illinois State Geological Survey Springfield, IL – **REF. NO. EPA-650/2-74-054**
Illinois, University of Urbana, IL – **REF. NO. EPA-670/2-73-082**
Illinois, University of School of Chemical Sciences Urbana, IL – **REF. NO. EPA-650/2-74-063**
Illinois, University of Urbana, IL – **REF. NO. EPA-670/2-74-035a**

PERFORMING ORGANIZATION INDEX

Illinois, University of Urbana, IL – **REF. NO. EPA-670/2–74–035b**
Illinois, University of Urbana, IL – **REF. NO. EPA-670/2–74–036a**
Illinois, University of Urbana, IL – **REF. NO. EPA-670/2–74–036b**
Illinois, University of Urbana, IL – **REF. NO. EPA-600/3–75–011**
Illinois, University of, Department of Civil Engineering Urbana, IL – **REF. NO. EPA-670/2–74–016**
Illinois, University of, Illinois Natural History Survey Urbana, IL – **REF. NO. EPA-660/3–74–025**
Illinois, University of, Illinois State Water Survey Urbana, IL – **REF. NO. EPA-670/2–73–029**
Independent Management Consultant on Environmental Affairs Cincinnati, OH – **REF. NO. EPA-600/2–75–044**
Industrial Bio-Test Laboratories, Inc. Northbrook, IL – **REF. NO. EPA-670/2–75–004**
Industrial Nucleonics Corporation Columbus, OH – **REF. NO. EPA-650/2–74–065**
Industrial Pollution Control Division, EPA Washington, DC – **REF. NO. EPA-600/2–75–001**
Industrial Waste Treatment Research Laboratory, EPA Rivesville, WV – **REF. NO. EPA-670/2–74–051**
Industrial Waste Treatment Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/2–74–093**
Institut National de Recherche Chimique Appliquee Vertle Petit, FR – **REF. NO. EPA-600/2–75–025**
Institute for Community Studies Kansas City, MO – **REF. NO. EPA-600/5–74–024**
Institute for Policy Analysis La Jolla, CA – **REF. NO. EPA-600/5–75–010**
Institute of Gas Technology, IIT Center Chicago, IL – **REF. NO. EPA-650/2–73–004**
Institute of Gas Technology, IIT Center Chicago, IL – **REF. NO. EPA-650/2–73–033a**
Institute of Gas Technology, IIT Center Chicago, IL – **REF. NO. EPA-650/2–73–033b**
Institute of Paper Chemistry Appleton, WI – **REF. NO. EPA-660/2–73–030**
Institute of Paper Chemistry Appleton, WI – **REF. NO. EPA-660/2–74–029**
International City Management Association Washington, DC – **REF. NO. EPA-600/5–73–016**
International Research and Technology Corporation Washington, DC – **REF. NO. EPA-670/2–73–056**
International Research and Technology Corporation Arlington, VA – **REF. NO. EPA-670/2–74–078**
Iowa State University Ames, IA – **REF. NO. EPA-660/2–74–009**
Iowa State University, Department of Agricultural Engineering Ames, IA – **REF. NO. EPA-670/2–73–025**
IBM Research Laboratory San Jose, CA – **REF. NO. EPA-600/4–75–005a**
IIT Research Institute Chicago, IL – **REF. NO. EPA-650/1–73–002**
IIT Research Institute Chicago, IL – **REF. NO. EPA-650/2–74–016**
IIT Research Institute Chicago, IL – **REF. NO. EPA-650/2–74–088**
IIT Research Institute Chicago, IL – **REF. NO. EPA-650/2–74–090**
IRT Corporation San Diego, CA – **REF. NO. EPA-650/1–75–004**
Jack Faucett Company Chevy Chase, MD – **REF. NO. EPA-600/5–74–033**
JRB Associates, Inc. La Jolla, CA – **REF. NO. EPA-650/4–74–006**
Kaman Sciences Corporation Colorado Springs, CO – **REF. NO. EPA-650/4–75–005**
Kansas State University Manhattan, KS – **REF. NO. EPA-650/2–74–084**
Kansas State University Manhattan, KS – **REF. NO. EPA-650/2–74–110**
Kansas State University Manhattan, KS – **REF. NO. EPA-660/2–75–010**
Kansas State University Manhattan, KS – **REF. NO. EPA-660/2–75–013**
Karolinska Institute Stockholm, Sweden – **REF. NO. EPA-600/1–75–004**
Karolinska Institute Stockholm, Sweden – **REF. NO. EPA-650/2–75–049**
Kenosha, City of Kenosha, WI – **REF. NO. EPA-670/2–75–019**
Kent Cheese Company Melrose Park, IL – **REF. NO. EPA-660/2–74–012**
Kentucky, University of, Department of Entomology Lexington, KY – **REF. NO. EPA-650/1–74–002**
KLD Associates, Inc. Huntington, NY – **REF. NO. EPA-650/2–75–018**
KVB Engineering, Inc. Tustin, CA – **REF. NO. EPA-650/2–74–078a**
Lake Herman Development Associates, Inc. Madison, SD – **REF. NO. EPA-660/3–74–017**
Lake Tahoe Area Council South Lake Tahoe, CA – **REF. NO. EPA-660/3–75–003**
Lancy Laboratories Zelienople, PA – **REF. NO. EPA-670/2–75–015**
Langston Laboratories, Inc. Leawood, KS – **REF. NO. EPA-650/2–75–007**
Lawrence Berkeley Laboratory Berkeley, CA – **REF. NO. EPA-650/4–74–030**
Lawrence Berkeley Laboratory Berkeley, CA – **REF. NO. EPA-650/2–75–048**
Lehigh Valley Industries, Inc. Bangor, PA – **REF. NO. EPA-600/2–75–055**
Lockheed Missiles and Space Company, Inc. Sunnyvale, CA – **REF. NO. EPA-650/3–74–004a**
Los Angeles County Sanitation District Whittier, CA – **REF. NO. EPA-600/2–75–047**
Los Angeles County Sanitation District Whittier, CA – **REF. NO. EPA-600/2–75–058**
Los Angles County Sanitation District Los Angeles, CA – **REF. NO. EPA-670/2–73–043**
Louisiana State University Baton Rouge, LA – **REF. NO. EPA-600/5–75–006**
Louisiana State University Baton Rouge, LA – **REF. NO. EPA-660/3–75–001**
Louisiana State University Baton Rouge, LA – **REF. NO. EPA-670/2–75–032**
Louisiana State University, Department of Chemistry Baton Rouge, LA – **REF. NO. EPA-650/2–73–011**
Louisiana State Unversity, Department of Chemical Engineering Baton Rouge, LA – **REF. NO. EPA-670/2–73–095**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–012**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–028**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–072**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–098**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–098a**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–116**

PERFORMING ORGANIZATION INDEX

M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–127**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–74–130**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-600/2–75–056**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–75–017**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–75–030**
M. W. Kellogg Company Houston, TX – **REF. NO. EPA-650/2–75–033**
Maine, University of Orono, ME – **REF. NO. EPA-650/3–75–005**
Manhattan College Bronx, NY – **REF. NO. EPA-660/3–73–009**
Manhattan College Bronx, NY – **REF. NO. EPA-660/3–75–005**
Maryland, State of, Department of Health and Mental Hygiene Baltimore, MD – **REF. NO. EPA-660/2–74–060**
Maryland, State of, Water Resources Administration Annaplois, MD – **REF. NO. EPA-660/2–73–035**
Maryland, State of, Water Resources Administration Annapolis, MD – **REF. NO. EPA-660/2–74–071**
Maryland, University of College Park, MD – **REF. NO. EPA-600/3–75–007**
Massachusetts Institute of Technology Cambridge, MA – **REF. NO. EPA-650/2–74–075**
Massachusetts Institute of Technology Cambridge, MA – **REF. NO. EPA-600/2–75–063**
Massachusetts Institute of Technology Cambridge, MA – **REF. NO. EPA-670/2–75–026a**
Massachusetts Institute of Technology Cambridge, MA – **REF. NO. EPA-670/2–75–026b**
Massachusetts Institute of Technology Cambridge, MA – **REF. NO. EPA-670/2–75–040**
Massachusetts Institute of Technology, Chemical Engineering Department Cambridge, MA – **REF. NO. EPA-670/2–73–089A**
Massachusetts Institute of Technology, Chemical Engineering Department Cambridge, MA – **REF. NO. EPA-670/2–73–089B**
Massachusetts Institute of Technology, Department of Chemical Engineering Cambridge, MA – **REF. NO. EPA-650/2–73–047**
Massachusetts, University of Amherst, MA – **REF. NO. EPA-670/2–75–065**
Mathematica, Inc. Bethesda, MD – **REF. NO. EPA-600/5–74–008**
Medical College of Wisconsin, Department of Environmental Medicine Milwaukee, WI – **REF. NO. EPA-650/1–73–004**
Medical College of Wisconsin, Department of Environmental Medicine Milwaukee, WI – **REF. NO. EPA-650/1–74–005**
Meloy Laboratories, Inc. Springfield, VA – **REF. NO. EPA-670/2–73–068**
Meloy Laboratories, Inc. Springfield, VA – **REF. NO. EPA-650/1–75–005**
Messer Associates, Inc. Silver Spring, MD – **REF. NO. EPA-670/2–74–082**
Meta Systems, Inc. Cambridge, MA – **REF. NO. EPA-600/5–74–030**
Meta Systems, Inc. Cambridge, MA – **REF. NO. EPA-600/5–75–001**
Metcalf and Eddy, Inc. Palo Alto, CA – **REF. NO. EPA-660/2–73–006a**
Metcalf and Eddy, Inc. Palo Alto, CA – **REF. NO. EPA-660/2–73–006b**
Metcalf and Eddy, Inc. Boston, MA – **REF. NO. EPA-660/2–73–036**
Metcalf and Eddy, Inc. Palo Alto, CA – **REF. NO. EPA-670/2–74–040**
Meteorology Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4–74–008**
Meteorology Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4–75–004**
Meteorology Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4–75–017**
Meteorology Research, Inc. Altadena, CA – **REF. NO. EPA-600/2–75–074**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–74–001**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–74–002**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/9–74–005**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–001**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–002**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–003**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–004a**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–004b**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–005**
Methods Development and Quality Assurance Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/4–75–006**
Metropolitan Denver Sewage Disposal District No. 1 Commerce City, CO – **REF. NO. EPA-600/2–75–035**
Metropolitan Sewer Board St. Paul, MN – **REF. NO. EPA-660/2–74–020**
Miami, University of Coral Gables, FL – **REF. NO. EPA-650/1–74–012**
Miami, University of Coral Gables, FL – **REF. NO. EPA-660/3–74–003**
Miami, University of Miami, FL – **REF. NO. EPA-650/1–75–002**
Miami, University of, School of Medicine Miami, FL – **REF. NO. EPA-650/1–74–009**
Michael Baker Jr., Inc. Beaver, PA – **REF. NO. EPA-670/2–74–009**
Michigan State University East Lansing, MI – **REF. NO. EPA-600/5–74–011**
Michigan State University East Lansing, MI – **REF. NO. EPA-660/2–74–057**
Michigan State University East Lansing, MI – **REF. NO. EPA-670/2–74–076a**
Michigan State University East Lansing, MI – **REF. NO. EPA-670/2–74–076b**
Michigan Technological University Houghton, MI – **REF. NO. EPA-660/2–74–018**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-670/2–73–049**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-650/1–74–007**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-650/2–74–096**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-660/3–75–004**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-670/2–75–046**
Michigan, University of Ann Arbor, MI – **REF. NO. EPA-670/2–75–061**
Michigan, University of, College of Engineering Ann Arbor, MI – **REF. NO. EPA-670/2–74–012**
Michigan, University of, Department of Naval Architecture and Marine Engineering Ann Arbor, MI – **REF. NO. EPA-670/2–74–054**

PERFORMING ORGANIZATION INDEX

Michigan, University of, Environmental and Water Resources Engineering Ann Arbor, MI – **REF. NO. EPA-670/2–74–047**
Middlebury College, Physics Department Middlebury, VT – **REF. NO. EPA-670/2–74–031**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/5–74–007**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/2–74–027**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/2–74–073**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/2–74–107**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–74–019a**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–74–023**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–74–046**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-660/2–74–047**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-660/2–74–094**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-670/2–74–048**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/2–75–020**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/2–75–041**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/5–75–004**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/5–75–016**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-600/9–75–005**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/2–75–044**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/2–75–066**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–75–001**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–75–011**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-650/4–75–013**
Midwest Research Institute Kansas City, MO – **REF. NO. EPA-670/2–75–057**
Milbrew, Inc. Juneau, WI – **REF. NO. EPA-660/2–74–025**
Milwaukee, City of, Department of Public Works Milwaukee, WI – **REF. NO. EPA-600/2–75–071**
Milwaukee, Sewerage Commission of the City of Milwaukee, WI – **REF. NO. EPA-670/2–73–050**
Mineral Pigments, Corporation Beltsville, MD – **REF. NO. EPA-670/2–74–044**
Minnesota, University of St. Paul, MN – **REF. NO. EPA-660/2–73–027**
Minnesota, University of St. Paul, MN – **REF. NO. EPA-670/2–73–051**
Minnesota, University of Minneapolis, MN – **REF. NO. EPA-600/2–75–059**
Minnesota, University of St. Paul, MN – **REF. NO. EPA-660/2–75–012**
Minnesota, University of Minneapolis, MN – **REF. NO. EPA-660/3–75–014**
Minnesota, University of St. Paul, MN – **REF. NO. EPA-660/3–75–017**
Minnesota, University of, Division of Environmental Health Minneapolis, MN – **REF. NO. EPA-670/5–73–020**
Minnesota, University of, School of Public Health Minneapolis, MN – **REF. NO. EPA-670/5–74–001**
Minnesota, University of, Division of Environmental Health Minneapolis, MN – **REF. NO. EPA-670/2–73–048**
Mississippi State University Jackson, MS – **REF. NO. EPA-660/3–75–024**
Missouri, University of Columbia, MO – **REF. NO. EPA-660/2–74–068**
Missouri, University of Rolla, MO – **REF. NO. EPA-670/2–75–053**
Missouri, University of, Department of Civil Engineering Rolla, MO – **REF. NO. EPA-670/2–73–038**
Mitre Corporation Washington, DC – **REF. NO. EPA-600/2–74–004**
Mitre Corporation McLean, VA – **REF. NO. EPA-650/2–74–030**
Mitre Corporation McLean, VA – **REF. NO. EPA-650/2–74–062**
Mitre Corporation McLean, VA – **REF. NO. EPA-650/2–74–062a**
Mitre Corporation McLean, VA – **REF. NO. EPA-600/2–75–007**
Mitre Corporation McLean, VA – **REF. NO. EPA-600/2–75–011**
Mitre Corporation McLean, VA – **REF. NO. EPA-600/2–75–037**
Mitre Corporation McLean, VA – **REF. NO. EPA-600/2–75–070**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–73–027**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–021**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–041**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–055**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–082**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–117**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–74–131**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-600/2–75–045**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–75–019a**
Monsanto Research Corporation Dayton, OH – **REF. NO. EPA-650/2–75–046**
Montana, University of Missoula, MT – **REF. NO. EPA-660/3–74–023**
Montana, University of, Wood Chemistry Laboratory Missoula, MT – **REF. NO. EPA-670/2–74–015**
Mount Clemens, City of Mount Clemens, MI – **REF. NO. EPA-670/2–75–010**
Municipal Environmental Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/2–75–036**
Municipal Environmental Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-600/5–75–019**
National Academy of Sciences Washington, DC – **REF. NO. EPA-600/1–75–005**
National Bureau of Standards Washington, DC – **REF. NO. EPA-600/5–73–012a**
National Bureau of Standards Washington, DC – **REF. NO. EPA-600/5–74–031**
National Canners Association Berkeley, CA – **REF. NO. EPA-660/2–74–091**
National Center for Resource Recovery, Inc. Washington, DC – **REF. NO. EPA-670/2–75–034**

PERFORMING ORGANIZATION INDEX

National Ecological Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-74-011**
National Ecological Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-74-012**
National Ecological Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-74-018**
National Ecological Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-74-024**
National Ecological Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-75-032**
National Environmental Research Center, Analytical Quality Control Laboratory Cincinnati, OH – **REF. NO. EPA-670/4-73-018**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-73-017**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-73-018**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-73-021**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/1-73-036**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/4-73-001**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-73-002**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-74-013**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-74-035**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-74-050**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/2-74-081**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/3-74-001**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-74-002**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-74-031**
National Environmental Research Center, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-74-034**
National Environmental Research Center, EPA Corvallis, OR – **REF. NO. EPA-660/9-74-002**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/2-74-069**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/2-74-088**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/2-74-090**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/4-74-006**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/4-74-007**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/4-74-008**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/4-74-009**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/5-74-005**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/9-74-001**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/9-74-002**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-74-001**
National Environmental Research Center, EPA Corvallis, OR – **REF. NO. EPA-660/3-75-008**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/2-75-051**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/2-75-052**
National Environmental Research Center, EPA Cincinnati, OH – **REF. NO. EPA-670/9-75-005**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/1-75-001**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-001**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-002b**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-003**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-004**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-006**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-007**
National Environmental Research Center, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-008**
National Environmental Research Center, Office of Program Coordination Cincinnati, OH – **REF. NO. EPA-670/5-73-012**
National Environmental Research Center, Office of Research and Development Cincinnati, OH – **REF. NO. EPA-670/9-73-056**
National Environmental Research Center, Program Coordination Staff Cincinnati, OH – **REF. NO. EPA-670/1-74-001**
National Environmental Research Center, Quality Assurance Branch, EPA, Las Vegas, NV – **REF. NO. EPA-680/4-73-001A**
National Environmental Research Center, Technical Information Office Cincinnati, OH – **REF. NO. EPA-670/9-73-004**
National Environmental Research Center, Technical Information Office Cincinnati, OH – **REF. NO. EPA-670/9-73-055**
National Environmental Research Center, Technical Information Staff Cincinnati, OH – **REF. NO. EPA-670/9-74-004**
National Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA-660/3-75-036**
National Environmental Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/9-75-007**
National Marine Water Quality Laboratory, EPA Narragansett, RI – **REF. NO. EPA-600/3-75-002**
National Oil Recovery Corporation Bayonne, NJ – **REF. NO. EPA-670/2-75-068**
National Research Corporation Billerica, MA – **REF. NO. EPA-650/2-75-013a**
National Steel Corporation Weirton, WV – **REF. NO. EPA-600/2-75-014**
National Steel Corporation, Weirton Steel Division Weirton, WV – **REF. NO. EPA-650/2-73-028**
National Water Quality Laboratory, EPA Duluth, MN – **REF. NO. EPA-660/3-75-009**
Naval Research Laboratory Washington, DC – **REF. NO. EPA-650/2-73-006**
Naval Research Laboratory Washington, DC – **REF. NO. EPA-600/4-75-002**
Naval Research Laboratory Washington, DC – **REF. NO. EPA-650/2-75-004**
Nebraska, University of Omaha, NB – **REF. NO. EPA-650/1-75-003**
New England Plating Company, Inc. Worcester, MA – **REF. NO. EPA-600/2-75-028**
New Hampshire, University of Durham, NH – **REF. NO. EPA-660/3-74-031**
New Jersey Zinc Company Palmerton, PA – **REF. NO. EPA-670/2-75-016**
New York State Atomic and Space Development Authority New York, NY – **REF. NO. EPA-670/2-74-080**
New York University, Chemistry Department New York, NY – **REF. NO. EPA-650/1-74-010**

PERFORMING ORGANIZATION INDEX

New York University, School of Engineering New York City, NY – **REF. NO. EPA-650/2–73–020**
New York University, School of Engineering and Science, Department of Chemical Engineering Bronx, NY – **REF. NO. EPA-670/2–73–023**
New York, State University of Buffalo, NY – **REF. NO. EPA-660/2–74–079**
New York, State University of Syracuse, NY – **REF. NO. EPA-660/2–74–081**
New York, State University of Albany, NY – **REF. NO. EPA-650/3–75–003**
New York, State University of Albany, NY – **REF. NO. EPA-660/3–75–021**
New York, University of Buffalo, NY – **REF. NO. EPA-660/3–74–027**
Noise Technology Staff, EPA Washington, DC – **REF. NO. EPA-600/1–75–001**
Noise Technology Staff, EPA Washington, DC – **REF. NO. EPA-600/2–75–002**
Noise Technology Staff, EPA Washington, DC – **REF. NO. EPA-600/2–75–003**
Noise Technology Staff, EPA Washington, DC – **REF. NO. EPA-600/2–75–008**
Noise Technology Staff, EPA Washington, DC – **REF. NO. EPA-600/2–75–010**
North American Rockwell Corporation Canoga Park, CA – **REF. NO. EPA-670/2–73–031**
North Carolina State University Raleigh, NC – **REF. NO. EPA-660/2–73–021**
North Carolina State University Raleigh, NC – **REF. NO. EPA-650/2–74–095**
North Carolina State University Raleigh, NC – **REF. NO. EPA-660/2–74–031**
North Carolina State University Raleigh, NC – **REF. NO. EPA-600/4–75–004**
North Carolina State University Raleigh, NC – **REF. NO. EPA-650/4–75–015**
North Carolina State University Raleigh, NC – **REF. NO. EPA-660/2–75–014**
North Carolina State University, Department of Animal Science Raleigh, NC – **REF. NO. EPA-670/2–73–090**
North Carolina State University, Department of Wood and Paper Sciences Raleigh, NC – **REF. NO. EPA-650/2–74–005**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-600/5–73–015**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-670/2–73–047a**
North Carolina, University of Greensboro, NC – **REF. NO. EPA-650/3–74–008**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-650/4–74–038**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-670/2–74–032**
North Carolina, University of Raleigh, NC – **REF. NO. EPA-670/2–74–096**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-650/3–75–011**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-650/9–75–001a**
North Carolina, University of Chapel Hill, NC – **REF. NO. EPA-650/9–75–001b**
North Carolina, University of, Center for Urban and Regional Studies Chapel Hill, NC – **REF. NO. EPA-600/5–73–007**
North Dakota, University of Grand Forks, ND – **REF. NO. EPA-660/3–73–001**
North Star Research Corporation Minneapolis, MN – **REF. NO. EPA-660/2–73–033**
Northwest Environmental Technology Laboratory, Inc. Bellevue, WA – **REF. NO. EPA-650/2–75–039**
Notre Dame, University of Notre Dame, IN – **REF. NO. EPA-650/4–74–041**
Oak Ridge National Laboratory Oak Ridge, TN – **REF. NO. EPA-660/2–74–076**
Ocean Systems, Inc. Reston, VA – **REF. NO. EPA-670/2–74–053**
Oceanic Foundation Waimanalo, HI – **REF. NO. EPA-660/3–75–015**
Office of Environmental Sciences, EPA Washington, DC – **REF. NO. EPA-600/9–75–003**
Office of Monitoring Systems, EPA Washington, DC – **REF. NO. EPA-600/4–74–004**
Office of Monitoring Systems, EPA Washington, DC – **REF. NO. EPA-600/4–75–001**
Office of Research and Development, Environmental Studies Division, EPA Washington, DC – **REF. NO. EPA-600/5–73–010**
Office of Research and Development, EPA Washington, DC – **REF. NO. EPA-600/9–75–002**
Office of Research and Development, EPA Washington, DC – **REF. NO. EPA-600/9–75–004**
Office of Research and Development, Implementation Research Division, EPA Washington, DC – **REF. NO. EPA-600/5–73–001**
Office of Research and Development, Office of International Affairs Washington, DC – **REF. NO. EPA-670/9–74–003**
Office of Research and Development, Publications Staff, Office of Program Management, EPA Washington, DC – **REF. NO. EPA-600/5–73–002**
Office of Research and Development, Science Advisory Board, EPA Washington, DC – **REF. NO. EPA-SAB-73–001**
Ohio Agricultural Research and Development Center Wooster, OH – **REF. NO. EPA-670/2–74–074**
Ohio State University Columbus, OH – **REF. NO. EPA-660/2–74–023**
Ohio State University Columbus, OH – **REF. NO. EPA-600/2–75–032**
Ohio State University Research Foundation Columbus, OH – **REF. NO. EPA-650/1–73–003**
Ohio State University, Department of Entomology Columbus, OH – **REF. NO. EPA-660/2–74–032**
Oklahoma State University Stillwater, OK – **REF. NO. EPA-650/2–74–080**
Oklahoma State University Stillwater, OK – **REF. NO. EPA-660/2–74–046**
Oklahoma State University Stillwater, OK – **REF. NO. EPA-660/2–75–009**
Oklahoma State University Ada, OK – **REF. NO. EPA-660/3–75–030**
Oklahoma Water Resources Board Oklahoma City, OK – **REF. NO. EPA-660/3–74–033**
Oklahoma, University of Norman, OK – **REF. NO. EPA-660/2–74–037**
Oklahoma, University of Norman, OK – **REF. NO. EPA-660/2–74–077**
Oklahoma, University of Norman, OK – **REF. NO. EPA-660/3–74–006**
Olsen Laboratories, Inc. Anaheim, CA – **REF. NO. EPA-650/4–75–024a**
Olsen Laboratories, Inc. Anaheim, CA – **REF. NO. EPA-650/4–75–024b**
Oregon State University Corvallis, OR – **REF. NO. EPA-660/3–73–020**
Oregon State University Corvallis, OR – **REF. NO. EPA-600/5–74–017**
Oregon State University Corvallis, OR – **REF. NO. EPA-670/2–74–027**
Oregon State University Corvallis, OR – **REF. NO. EPA-660/3–75–025**

PERFORMING ORGANIZATION INDEX

Oregon State University, School of Forestry Corvallis, OR – **REF. NO. EPA**-670/2–73–005
OR&D, Publications Staff, EPA Washington, DC – **REF. NO. EPA**-600/9–74–001
OR&D, Publications Staff, EPA Washington, DC – **REF. NO. EPA**-600/9–74–002
OR&D, Publications Staff, EPA Washington, DC – **REF. NO. EPA**-600/9–75–001a
OR&D, Publications Staff, EPA Washington, DC – **REF. NO. EPA**-600/9–75–001b
OR&D, Technical Information Division, EPA Washington, DC – **REF. NO. EPA**-600/9–75–001c
OR&D, Technical Information Division, EPA Washington, DC – **REF. NO. EPA**-600/9–75–001d
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–73–001
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–73–016
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–73–031
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–73–039
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–73–013
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–73–014
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–74–058
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–74–089
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–74–015
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–74–032
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/9–74–001
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/2–75–024
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–75–034
Pacific Northwest Environmental Research Laboratory, EPA Corvallis, OR – **REF. NO. EPA**-660/3–75–039
Pechnische Hochschule Darmstadt Hochschulfpr, GY – **REF. NO. EPA**-600/4–75–006
Pennsylvania State University University Park, PA – **REF. NO. EPA**-660/2–73–002
Pennsylvania State University University Park, PA – **REF. NO. EPA**-670/2–73–093
Pennsylvania State University University Park, PA – **REF. NO. EPA**-650/4–74–032
Pennsylvania State University University Park, PA – **REF. NO. EPA**-660/2–74–003
Pennsylvania State University University Park, PA – **REF. NO. EPA**-660/2–74–016
Pennsylvania State University University Park, PA – **REF. NO. EPA**-670/2–74–018
Pennsylvania State University University Park, PA – **REF. NO. EPA**-600/5–75–007
Pennsylvania State University University Park, PA – **REF. NO. EPA**-650/3–75–008
Pennsylvania State University, Department of Meteorology and Center for Air, Environmental Studies University Park, PA – **REF. NO. EPA**-650/4–74–045a
Pennsylvania State University, Department of Meteorology and Center for Air, Environmental Studies University Park, PA – **REF. NO. EPA**-650/4–74–045b
Pennsylvania, State of, Department of Environmental Resources Pittsburgh, PA – **REF. NO. EPA**-670/2–73–054
Pennsylvania, University of Philadelphia, PA – **REF. NO. EPA**-660/2–74–053
Pennsylvania, University of, Towne School of Civil and Mechanical Engineering Philadelphia, PA – **REF. NO. EPA**-670/2–73–072
Pesticides and Toxic Substances Effects Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/1–73–001
Philadelphia Water Department Philadelphia, PA – **REF. NO. EPA**-670/2–74–049
Philco-Ford Corporation Newport Beach, CA – **REF. NO. EPA**-650/2–74–094
Philco-Ford Corporation Newport Beach, CA – **REF. NO. EPA**-650/2–74–120
Philco-Ford Corporation Newport Beach, CA – **REF. NO. EPA**-650/4–74–036
Philco-Ford Corporation, Aeronutronic Division Newport Beach, CA – **REF. NO. EPA**-650/2–73–030
Polytechnic Institute of Brooklyn Brooklyn, NY – **REF. NO. EPA**-670/2–75–030
Port Arthur, City of Port Arthur, TX – **REF. NO. EPA**-670/2–75–060
Potato Service, Inc. Presque Isle, ME – **REF. NO. EPA**-660/2–74–088
Potomac Engineering and Surveying Petersburg, WV – **REF. NO. EPA**-670/2–74–002
Princeton, Incorporated, Aeronautical Research Associates Princeton, NJ – **REF. NO. EPA**-650/4–74–035
Process Research, Inc. Cambridge, MA – **REF. NO. EPA**-670/2–73–076
Purdue University Lafayette, IN – **REF. NO. EPA**-660/2–74–043
Purdue University Lafayette, IN – **REF. NO. EPA**-660/3–74–004a
Purdue University Lafayette, IN – **REF. NO. EPA**-660/3–74–004b
Purdue University West Lafayette, IN – **REF. NO. EPA**-660/2–75–027
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–74–101
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–74–115
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–74–122
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057a
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057b
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057c
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057d
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057e
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057f
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057g
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057h
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057i
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057j
PEDCo-Environmental Specialists, Inc. Cincinnati, OH – **REF. NO. EPA**-650/2–75–057k
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA**-650/4–74–018

PERFORMING ORGANIZATION INDEX

Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-74-047**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-74-048**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-007**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-019**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-021**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-022**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-023**
Quality Assurance and Environmental Monitoring Laboratory, EPA Research Triangle Park, NC – **REF. NO. EPA-650/4-75-025**
Quality Assurance Branch, EPA Research Triangle Park, NC – **REF. NO. EPA-600/4-75-003**
Quality Assurance Branch, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-005**
Quality Assurance Research Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-680/4-73-001b**
Quality Assurance Research Laboratory, EPA Las Vegas, NV – **REF. NO. EPA-680/4-75-002a**
Radian Corporation Austin, TX – **REF. NO. EPA-650/2-74-024**
Radian Corporation Austin, TX – **REF. NO. EPA-650/2-74-033**
Radian Corporation Austin, TX – **REF. NO. EPA-600/2-75-042**
Radian Corporation Austin, TX – **REF. NO. EPA-600/2-75-068**
Radian Corporation Austin, TX – **REF. NO. EPA-650/2-75-006**
Radian Corporation Austin, TX – **REF. NO. EPA-650/2-75-038**
Radian Corporation Austin, TX – **REF. NO. EPA-650/2-75-065**
Ralph M. Parsons Company Los Angeles, CA – **REF. NO. EPA-670/2-73-092**
Ralph Stone and Company, Inc. Los Angeles, CA – **REF. NO. EPA-600/5-73-003**
Ralph Stone and Company, Inc. Los Angeles, CA – **REF. NO. EPA-670/2-74-095a**
Ralph Stone and Company, Inc. Los Angeles, CA – **REF. NO. EPA-670/2-74-095b**
Raytheon Company Portsmouth, RI – **REF. NO. EPA-600/5-74-004**
Raytheon Company Protsmouth, RI – **REF. NO. EPA-670/2-74-087**
Raytheon Company Sudbury, MA – **REF. NO. EPA-650/2-75-062**
Raytheon Company Portsmouth, RI – **REF. NO. EPA-670/2-75-067**
Raytheon Company, Environmental Systems Center Portsmouth, RI – **REF. NO. EPA-670/2-73-104**
Recon Systems, Inc. Princeton, NJ – **REF. NO. EPA-670/2-74-052**
Regional Science Research Institute Philadelphia, PA – **REF. NO. EPA-670/5-74-006**
Rensselaer Polytechnic Institute Troy, NY – **REF. NO. EPA-660/3-73-003**
Rensselaer Polytechnic Institute Troy, NY – **REF. NO. EPA-670/2-74-063**
Research Corporation of New England Wethersfield, CT – **REF. NO. EPA-650/2-74-008a**
Research Corporation of New England Wethersfield, CT – **REF. NO. EPA-650/4-74-042**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-600/5-74-009**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-74-019**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-74-097**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-74-111**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-74-118**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-74-121**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005a**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005b**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005c**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005d**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005h**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-0051**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-005m**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-012**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/4-74-016**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-600/2-75-022**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-600/2-75-076**
Research Triangle Institute Research Triangle Park, NC – **REF. NO. EPA-650/2-75-021**
Resource Planning Institute Cambridge, MA – **REF. NO. EPA-670/2-74-024A**
Resource Planning Institute Cambridge, MA – **REF. NO. EPA-670/2-74-024B**
Resource Planning Institute Cambridge, MA – **REF. NO. EPA-670/5-74-002**
Resource Planning Institute Cambridge, MA – **REF. NO. EPA-670/5-74-004**
Rhode Island, University of Kingston, RI – **REF. NO. EPA-600/3-75-001**
Richard McLay, Consulting Engineers Essex Junction, VT – **REF. NO. EPA-660/3-75-037**
Richardson, City of Richardson, TX – **REF. NO. EPA-670/2-73-060**
Richmond, City of Richmond, VA – **REF. NO. EPA-670/2-75-035**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-73-014**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-038**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-041**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-042**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-046**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-062**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-065**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2-74-066**

PERFORMING ORGANIZATION INDEX

Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2–74–067**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2–74–087**
Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK – **REF. NO. EPA-660/2–75–022**
Rocketdyne, Division of Rockwell International Corporation Canoga Park, CA – **REF. NO. EPA-650/2–74–023**
Rocketdyne, Division of Rockwell International Canoga Park, CA – **REF. NO. EPA-650/2–74–047**
Rockwell International Thousand Oaks, CA – **REF. NO. EPA-650/3–75–004**
Rockwill International Air Monitoring Center Newbury Park, CA – **REF. NO. EPA-650/3–75–009**
Rocky Mountain Center on Environment Denver, CO – **REF. NO. EPA-600/5–75–008**
Rohnert Park, City of Rohnert Park, CA – **REF. NO. EPA-670/2–74–075**
Rosenstiel School of Marine and Atmospheric Science, University of Miami Miami, FL – **REF. NO. EPA-660/3–74–014**
Rutgers University New Brunswick, NJ – **REF. NO. EPA-670/2–73–027**
Rutgers University New Brunswick, NJ – **REF. NO. EPA-670/2–74–094**
Rutgers University New Brunswick, NJ – **REF. NO. EPA-600/2–75–031**
Rutgers University, College of Agriculture and Environmental Science New Brunswick, NJ – **REF. NO. EPA-670/2–73–085**
RAI Research Corporation Haupage, Long Island, NY – **REF. NO. EPA-660/2–74–035**
S.K. Williams Company Wauwatosa, WI – **REF. NO. EPA-670/2–74–042**
San Diego Utilities Department San Diego, CA – **REF. NO. EPA-670/2–73–039**
San Francisco, City of San Francisco, CA – **REF. NO. EPA-670/2–75–054**
San Jose Public Works Department, City of San Jose, CA – **REF. NO. EPA-670/2–73–096**
Science Applications, Inc. McLean, VA – **REF. NO. EPA-670/2–75–066**
Scientific Research Instruments Corporation Baltimore, MD – **REF. NO. EPA-650/2–73–042**
Scott Environmental Technology San Bernardino, CA – **REF. NO. EPA-650/2–75–053a**
Scott Environmental Technology San Bernardino, CA – **REF. NO. EPA-650/2–75–053b**
Scott Environmental Technology Plumsteadville, PA – **REF. NO. EPA-650/4–75–008**
Scott Research Laboratories, Inc. Plumsteadville, PA – **REF. NO. EPA-650/4–74–020**
Seattle, Municipality of Metropolitan Seattle, WA – **REF. NO. EPA-670/2–74–022**
Seattle, Municipality of Metropolitan Seattle, WA – **REF. NO. EPA-670/2–74–061**
Shelbyville, City of Shelbyville, IL – **REF. NO. EPA-670/2–74–079**
Shell Development Company Houston, TX – **REF. NO. EPA-670/2–73–084**
Shell Development Company Emeryville, CA – **REF. NO. EPA-650/2–74–017**
Skelly & Loy, Engineers Harrisburg, PA – **REF. NO. EPA-670/2–75–047**
Smithsonian Institution Cambridge, MA – **REF. NO. EPA-600/4–75–001**
Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/5–73–021**
Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/2–74–007**
Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/2–75–005**
Solid and Hazardous Waste Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/2–75–025**
Solid Waste Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA-670/2–73–001**
South Dakota State University Brookinger, SD – **REF. NO. EPA-670/4–73–002**
South Dakota State University Brookings,, SD – **REF. NO. EPA-660/2–74–005**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–73–007**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–73–009**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–73–013**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–73–034**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/3–73–007**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/3–73–012**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–74–001**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–74–002**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–74–017**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–74–045**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/2–74–078**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/3–74–021**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/3–75–007**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/3–75–012**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/4–75–001**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/4–75–003**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/4–75–004**
Southeast Environmental Research Laboratory, EPA Athens, GA – **REF. NO. EPA-660/4–75–005**
Southern Piedmont Conservation Research Center Watkinsville, GA – **REF. NO. EPA-660/2–74–017**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–73–035**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–074**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–079**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–092**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–102**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–102a**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–114**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–124**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–129**
Southern Research Institute Birmingham, AL – **REF. NO. EPA-650/2–74–129a**

PERFORMING ORGANIZATION INDEX

Southern Research Institute Birmingham, AL – **REF. NO. EPA**-650/2–74–132
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-670/2–74–030
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-600/2–75–015
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-600/2–75–017
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-650/2–75–016
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-650/2–75–022
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-650/2–75–037
Southern Research Institute Birmingham, AL – **REF. NO. EPA**-670/2–75–043
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/1–74–003
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/1–74–008
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–013
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–021
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–022
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–024
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–025
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–026
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–027
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–028
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–029
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–033
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–74–039
Southwest Research Institute Houston, TX – **REF. NO. EPA**-660/3–74–026
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-670/2–74–092
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-600/2–75–048
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/2–75–056
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–75–003
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–75–009
Southwest Research Institute San Antonio, TX – **REF. NO. EPA**-650/4–75–016
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010e
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010a
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010b
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010c
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010d
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010f
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010g
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010h
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010i
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/3–75–010j
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/6–75–001
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/6–75–002
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/6–75–003
Special Studies Staff, EPA Research Triangle Park, NC – **REF. NO. EPA**-600/6–75–004
St. Louis Sewer District, Metropolitan St. Louis, MO – **REF. NO. EPA**-670/2–73–098
St. Louis Sewer District, Metropolitan St. Louis, MO – **REF. NO. EPA**-670/2–74–062
St. Michaels, Town of St. Michaels, MD – **REF. NO. EPA**-600/2–75–060
St. Regis Paper Company Pensacola, FL – **REF. NO. EPA**-660/2–75–004
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/5–73–009
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/2–73–037
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/2–73–043
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/3–73–001
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/4–73–002
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/5–73–002
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/2–74–002
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/1–74–013
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/2–74–108
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/4–74–007
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/4–74–015
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/4–74–037
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/2–75–009
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/2–75–019
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/2–75–070
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-600/5–75–012
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-650/2–75–040
Stanford Research Institute Menlo Park, CA – **REF. NO. EPA**-660/3–75–016
Stanford University Pacific Grove, CA – **REF. NO. EPA**-660/3–75–013
Stanford University, Department of Civil Engineering Stanford, CA – **REF. NO. EPA**-670/2–73–010
Stanley Consultants, Inc. Muscatine, IA – **REF. NO. EPA**-660/2–74–014
Swift and Company Oakbrook, IL – **REF. NO. EPA**-660/2–73–015

PERFORMING ORGANIZATION INDEX

Syracuse University Syracuse, NY – **REF. NO. EPA-670/2–75–021**
Syracuse University Research Corporation Syracuse, NY – **REF. NO. EPA-670/2–73–087**
Syracuse University, Department of Civil Engineering Syracuse, NY – **REF. NO. EPA-670/2–73–065**
System Development Corporation Santa Monica, CA – **REF. NO. EPA-650/4–75–002**
Systems Applications, Inc. San Rafael, CA – **REF. NO. EPA-650/4–74–011**
Systems Applications, Inc. San Rafael, CA – **REF. NO. EPA-650/4–74–040**
Systems Applications, Inc. San Rafael, CA – **REF. NO. EPA-650/4–75–026**
Systems Control, Inc. Palo Alto, CA – **REF. NO. EPA-600/5–75–015**
Systems Control, Inc. Palo Alto, CA – **REF. NO. EPA-670/2–75–039**
Systems Technology Associates Falls Church, VA – **REF. NO. EPA-650/2–73–009**
Systems, Science and Software La Jolla, CA – **REF. NO. EPA-650/4–74–003**
SAI, Inc. LaJolla, CA – **REF. NO. EPA-650/2–75–041**
SCS Engineers Long Beach, CA – **REF. NO. EPA-660/2–74–075**
SCS Engineers Long Beach, CA – **REF. NO. EPA-670/2–75–038**
SIECO, Inc. Columbus, IN – **REF. NO. EPA-600/2–75–072**
Technical Information Staff, NERC Cincinnati, OH – **REF. NO. EPA-670/9–75–001**
Technical Information Staff, NERC Cincinnati, OH – **REF. NO. EPA-670/9–75–002**
Technical Information Staff, NERC Cincinnati, OH – **REF. NO. EPA-670/9–75–003**
Technology Service Corporation Santa Monica, CA – **REF. NO. EPA-650/4–74–001**
Teknekron, Inc. Washington, DC – **REF. NO. EPA-600/5–74–015**
Tennessee Valley Authority Chattanooga, TN – **REF. NO. EPA-650/2–73–019a**
Tennessee Valley Authority Chattanooga, TN – **REF. NO. EPA-650/2–73–019b**
Tennessee Valley Authority Chattanooga, TN – **REF. NO. EPA-650/2–73–019c**
Tennessee Valley Authority Chattanooga, TN – **REF. NO. EPA-650/2–74–049a**
Tennessee Valley Authority Muscle Shoals, TN – **REF. NO. EPA-600/2–75–006**
Tennessee Valley Authority, Office of Agricultural and Development Muscle Shoals, AL – **REF. NO. EPA-650/2–73–051**
Tetra Technology, Inc. Pasadena, CA – **REF. NO. EPA-660/2–73–029**
Texas A&M University College Station, TX – **REF. NO. EPA-670/2–73–041**
Texas A&M University College Station, TX – **REF. NO. EPA-650/3–74–006**
Texas Municipal Water District, West Central Abilene, TX – **REF. NO. EPA-660/2–74–019**
Texas Technical University Lubbock, TX – **REF. NO. EPA-660/2–74–090**
Texas, University of Austin, TX – **REF. NO. EPA-660/2–73–025a**
Texas, University of Austin, TX – **REF. NO. EPA-660/2–73–025b**
Textile Research Institute Princeton, NJ – **REF. NO. EPA-650/2–75–002**
Thermo-Systems, Inc. St. Paul, MN – **REF. NO. EPA-650/2–73–022**
Thermo-Systems, Inc. St. Paul, MN – **REF. NO. EPA-650/4–74–017**
Thiokol Corporation Brigham City, UT – **REF. NO. EPA-670/2–74–091**
Thunder Scientific Corporation Albuquerque, NM – **REF. NO. EPA-650/2–73–008**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053A**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053B**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053C**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053D**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053E**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053F**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053G**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053H**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053I**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053J**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053K**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053L**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053M**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053N**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053O**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053P**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-670/2–73–053A-P**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–74–025**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–74–025a**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–74–031a**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–74–031b**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–74–064**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-600/2–75–012**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–75–001a**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–75–001b**
TRW Systems Group Redondo Beach, CA – **REF. NO. EPA-650/2–75–020**
U.S. Bureau of Mines Pittsburgh, PA – **REF. NO. EPA-650/2–74–038**
U.S. Bureau of Mines Bartlesville, OK – **REF. NO. EPA-660/2–74–010**
U.S. Bureau of Mines Bartlesville, OK – **REF. NO. EPA-650/2–75–014**
U.S. Department of the Interior Columbia, MO – **REF. NO. EPA-600/3–75–013**

PERFORMING ORGANIZATION INDEX

U.S. Department of the Interior Washington, DC – **REF. NO. EPA**-650/2–75–011
U.S. Department of the Interior Columbia, MO – **REF. NO. EPA**-660/3–75–011
U.S. Department of Agriculture Washington, DC – **REF. NO. EPA**-600/2–75–026a
U.S. Department of Agriculture Beltsville, MD – **REF. NO. EPA**-600/2–75–034
U.S. Department of Agriculture Kimberly, ID – **REF. NO. EPA**-600/2–75–064
U.S. Department of Agriculture Fort Collins, CO – **REF. NO. EPA**-660/2–75–015
U.S. Department of Commerce Washington, DC – **REF. NO. EPA**-650/2–74–125
U.S. Department of Commerce Asheville, NC – **REF. NO. EPA**-660/2–75–018
U.S. Department of Health, Education, and Welfare, National Institute for Occupational Safety and Health Rockville, MD – **REF. NO. EPA**-680/4–73–002
U.S. Fish and Wildlife Service Yankton, SD – **REF. NO. EPA**-660/3–75–010
U.S. Forest Service Fairbanks, AK – **REF. NO. EPA**-660/3–74–009
U.S. Plywood-Champion Paper, Inc. Hamilton, OH – **REF. NO. EPA**-660/2–73–019
Ultrasystems, Inc. Irvine, CA – **REF. NO. EPA**-650/2–74–045
Union Carbide Corporation Tonawanda, NY – **REF. NO. EPA**-670/2–73–042
United Aircraft Research Laboratories East Hartford, CT – **REF. NO. EPA**-650/2–73–045
United Aircraft Research Laboratories East Hartford, CT – **REF. NO. EPA**-650/2–74–020
United Technologies Research Center Hartford, CT – **REF. NO. EPA**-600/2–75–078
United Technologies Research Center East Hartford, CT – **REF. NO. EPA**-650/2–75–061a
University City Science Center Philadelphia, PA – **REF. NO. EPA**-670/2–75–041
Urban Programs Division El Segundo, CA – **REF. NO. EPA**-650/2–73–014
Utah State University Logan, UT – **REF. NO. EPA**-660/3–73–019
Utah State University Logan, UT – **REF. NO. EPA**-600/5–74–010
Utah State University Logan, UT – **REF. NO. EPA**-600/5–74–021
Utah State University Logan, UT – **REF. NO. EPA**-660/2–75–005
Utah State University Logan, UT – **REF. NO. EPA**-670/9–75–004
Utah, University of Salt Lake City, UT – **REF. NO. EPA**-660/3–73–004
Vanderbilt University Nashville, TN – **REF. NO. EPA**-660/2–73–012
Vanderbilt University Nashville, TN – **REF. NO. EPA**-660/2–74–085
Vanderbilt University Nashville, TN – **REF. NO. EPA**-660/3–75–002
Vanderbilt University Nashville, TN – **REF. NO. EPA**-660/3–75–038
Vermont, State of, Department of Water Resources Montpelier, VT – **REF. NO. EPA**-660/2–74–040
Versar, Inc. Springfield, VA – **REF. NO. EPA**-650/4–73–003
Virginia Institute of Marine Science Gloucester Point, VA – **REF. NO. EPA**-670/2–73–099
Virginia Polytechnic Institute Blacksburg, VA – **REF. NO. EPA**-600/5–73–014
Virginia, University of Charlottesville, VA – **REF. NO. EPA**-670/2–73–030
Walden Research Division of Abcor, Inc. Cambridge, MA – **REF. NO. EPA**-650/2–73–050
Walden Research Division of Abcor, Inc. Walden, MA – **REF. NO. EPA**-650/2–74–039
Walnut Creek Central Control Sanitary District Walnut Creek, CA – **REF. NO. EPA**-670/2–73–064
Walter C. McCrone Associates, Inc. Chicago, IL – **REF. NO. EPA**-650/2–73–024
Washington Environmental Research Center, EPA Washington, DC – **REF. NO. EPA**-600/5–74–012
Washington Environmental Research Center, EPA Washington, DC – **REF. NO. EPA**-600/5–74–017
Washington Environmental Research Center, Implementation Research Division, EPA Washington, DC – **REF. NO. EPA**-600/5–73–014
Washington Environmental Research Center, Implementation Research Division, EPA Washington, DC – **REF. NO. EPA**-600/5–74–003
Washington State University Pullman, WA – **REF. NO. EPA**-660/2–74–030
Washington, University of Seattle, WA – **REF. NO. EPA**-660/3–73–005
Washington, University of Seattle, WA – **REF. NO. EPA**-660/3–73–008
Washington, University of Seattle, WA – **REF. NO. EPA**-670/2–73–034
Washington, University of Seattle, WA – **REF. NO. EPA**-660/2–74–069
Washington, University of Seattle, WA – **REF. NO. EPA**-660/2–75–028
Water Supply Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–74–067
Water Supply Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/2–75–036
Water Supply Research Laboratory, EPA Cincinnati, OH – **REF. NO. EPA**-670/9–75–008
Water Supply Research Laboratory, NERC, EPA Cincinnati, OH – **REF. NO. EPA**-670/9–75–006
Waterloo, University of Waterloo, Ontario, Canada – **REF. NO. EPA**-660/3–73–011
Waterloo, University of Ontario, Canada – **REF. NO. EPA**-660/2–74–082
Waterloo, University of Ontario, Canada – **REF. NO. EPA**-660/2–74–083
Waterloo, University of, Department of Chemical Engineering Waterloo, Ontario, Canada – **REF. NO. EPA**-670/2–74–059
Wave Propagation Laboratory, NOAA/ERL Boulder, CO – **REF. NO. EPA**-650/2–74–113
West Virginia University Morgantown, VA – **REF. NO. EPA**-670/2–73–022
West Virginia University Morgantown, WV – **REF. NO. EPA**-670/2–74–070
West Virginia University Morgantown, WV – **REF. NO. EPA**-600/2–75–023
West Virginia University Medical Center Morgantown, WV – **REF. NO. EPA**-650/1–74–011
West Virginia University, Department of Chemical Engineering Morgantown, WV – **REF. NO. EPA**-650/2–73–003
West Virginia University, Department of Civil Engineering Morgantown, WV – **REF. NO. EPA**-670/2–73–083
Western Michigan University Kalamazoo, MI – **REF. NO. EPA**-600/3–75–009
Western Potato Service, Inc. Grand Forks, ND – **REF. NO. EPA**-660/2–74–088
Westinghouse Electric Corporation, Research and Development Center Pittsburgh, PA – **REF. NO. EPA**-670/2–74–017

PERFORMING ORGANIZATION INDEX

Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-73-048a
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-73-048b
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-73-048c
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-73-048d
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-670/2-73-006
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-75-027a
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-75-027b
Westinghouse Research Laboratories Pittsburgh, PA – **REF. NO. EPA**-650/2-75-027c
Wilkes College Wilkes Barre, PA – **REF. NO. EPA**-670/2-75-006
Winter Garden Citrus Products Cooperative Winter Garden, FL – **REF. NO. EPA**-660/2-75-001
Wisconsin Electric Power Company Milwaukee, WI – **REF. NO. EPA**-650/2-75-045
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-73-023
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-73-024
Wisconsin, University of Milwaukee, WI – **REF. NO. EPA**-670/2-73-079
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/2-74-006
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-74-020
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-75-006
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-75-022
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-75-027
Wisconsin, University of Madison, WI – **REF. NO. EPA**-660/3-75-033
Worcester Polytechnic Institute Worcester, MA – **REF. NO. EPA**-670/2-75-031
Worthington Biochemical Corporation Freehold, NJ – **REF. NO. EPA**-650/2-74-044
WAPORA, Inc. Washington, DC – **REF. NO. EPA**-660/2-73-026

PERSONAL AUTHOR INDEX

Aamodt, P. L.	EPA-600/2-75-040
Agnew, R. W.	EPA-670/2-75-019
Ahearn, D. G.	EPA-660/3-75-001
Akin, E. W.	EPA-600/1-75-003
Akinbami, S. O.	EPA-670/2-73-042
Albrecht, O. W.	EPA-670/5-73-021
Albrecht, R. M.	EPA-650/1-74-001
Albred, E. R.	EPA-670/2-73-051
Aleti, A.	EPA-600/5-75-004
Alexander, V.	EPA-660/3-75-026
Alford, A. L	EPA-660/2-73-013
Alford, A. L	EPA-660/2-74-002
Alford A. L	EPA-660/2-74-078
Alford, A. L	EPA-660/4-75-004
Alger, G. R.	EPA-660/2-74-018
Allan, G. G.	EPA-670/2-73-034
Allen, R. J.	EPA-650/4-73-002
Alley, E. G.	EPA-660/3-75-024
Allwood, J. K.	EPA-600/5-73-008b
Alspaugh, T. A.	EPA-660/2-74-039
Alter, H.	EPA-670/2-75-034
Anasoulis, R. F.	EPA-650/2-73-045
Anastas, M. Y.	EPA-600/2-75-073
Anastas, M. Y.	EPA-670/2-74-083
Andersen, J. C.	EPA-600/5-74-010
Andersen, J. R.	EPA-660/2-74-005
Andersland, O. B.	EPA-670/2-74-076a
Andersland, O. B.	EPA-670/2-74-076b
Anderson, G. E.	EPA-650/4-73-001
Anderson, J. L	EPA-660/2-73-012
Andrew, R. W.	EPA-600/3-75-012
Andrews, J. F.	EPA-670/2-73-061
Antoni, C. M.	EPA-670/2-73-065
Appleman, R.	EPA-660/3-73-015
Aresco, S. J.	EPA-650/2-74-030
Arkle Jr, T.	EPA-670/2-74-070
Armento, W. J.	EPA-650/2-74-002a
Armstrong, D. E.	EPA-660/3-75-006
Armstrong, T. A.	EPA-670/2-74-076a
Arthur, J. W.	EPA-600/3-75-012
Atkinson, S. E.	EPA-600/5-74-003
Avery, C.	EPA-600/5-75-017
Ayars, J.	EPA-660/2-74-084
Azarraga, L. V.	EPA-660/2-73-034
Badgley, M. D.	EPA-600/5-75-012
Bagley, M.	EPA-600/5-73-009
Baier, R. E.	EPA-670/2-75-042
Baierl, K. W.	EPA-660/2-73-030
Bailey, G. W.	EPA-660/2-74-017
Baillod, C. R.	EPA-660/2-74-018
Baity Jr., F. W.	EPA-650/2-74-046b
Baker, D. A.	EPA-660/2-74-027
Baker, D. R.	EPA-660/2-75-009
Ball, G.	EPA-670/2-73-049
Ballantyne, W. E.	EPA-600/2-75-073
Ballay, J. M.	EPA-660/2-73-002
Balouskus, R. A.	EPA-670/2-74-023
Bannerman, R. T.	EPA-660/3-75-006
Bar-Shalom, Y.	EPA-600/5-75-015
Baratz, B.	EPA-660/2-73-026
Barbour, J. F.	EPA-670/2-74-027
Barile, R. G.	EPA-660/2-75-027
Barker, J. C.	EPA-660/2-74-064
Barnett, A. P.	EPA-660/2-74-017
Barnett, Jr., J. T.	EPA-660/3-75-007
Barrager, S. M.	EPA-600/5-73-005
Barrett, J. J.	EPA-670/2-74-030
Barrett, R. E.	EPA-600/2-75-067
Barrett, R. E.	EPA-600/2-75-069a
Barry, J. P.	EPA-670/2-75-028
Barth, J.	EPA-680/4-73-002
Bartholomew, E.	EPA-600/5-75-011
Bartok, W.	EPA-600/2-75-053
Barton, J. R.	EPA-660/2-75-007
Bartsch, A. F.	EPA-660/9-74-002
Bascom, S. B.	EPA-600/5-75-002
Bascom, S. E.	EPA-600/5-75-013
Bass, T. D.	EPA-670/2-74-048
Bateman, T. W.	EPA-660/2-74-063
Battista, C. A.	EPA-670/2-73-066
Baugham, G. L.	EPA-660/3-73-012
Baughman, G. L.	EPA-660/3-75-007
Baumgardner Jr., R. E.	EPA-650/2-74-046b
Becker, B. C.	EPA-660/2-73-035
Becker, B. C.	EPA-660/2-74-073
Becker, E. R.	EPA-670/2-73-096
Beckers, C. V.	EPA-600/5-74-004
Beckman, J. E.	EPA-670/2-75-009
Behrens, H. C.	EPA-660/2-75-021
Bella, D. A.	EPA-660/3-75-025
Bellar, T. A.	EPA-670/4-74-009
Bellar, T. A.	EPA-670/4-74-008
Benarie, M.	EPA-600/2-75-025
Bender, D. F.	EPA-670/2-73-001
Benedict, B. A.	EPA-660/2-73-012
Benedict, B. A.	EPA-660/3-75-038
Benedict, H. M.	EPA-650/5-73-002
Bennet, E. R.	EPA-600/9-75-007
Bennet, S. M.	EPA-670/2-75-008
Bennett, R. S.	EPA-660/2-74-049
Bennett, R. S.	EPA-660/2-74-052
Bennett, R. S.	EPA-660/2-74-084
Benson, A. L.	EPA-650/2-73-032
Benson, S. W.	EPA-600/2-75-019
Berg, G.	EPA-670/2-73-003
Berg, G.	EPA-670/9-74-005
Berg, G.	EPA-670/9-75-007
Bergman, F. J.	EPA-600/2-75-041
Bergstedt, L.	EPA-660/3-75-014
Berkau, E. E.	EPA-600/2-75-010
Berkau, E. E.	EPA-650/2-73-029
Berkau, E. E.	EPA-650/2-73-031
Berkau, E. E.	EPA-650/2-74-003
Berkowitz, J. B.	EPA-670/2-75-024
Bernstein, S.	EPA-660/2-74-025
Berry, B. J.	EPA-600/5-75-003
Berry, E. C.	EPA-660/3-75-019
Berry, J. W.	EPA-660/2-74-011
Bevege, E.	EPA-670/2-75-009
Beychok, M. R.	EPA-660/2-75-011
Beyers, R. J.	EPA-660/3-73-025
Bhagwat, A.	EPA-660/3-73-005
Bhatt, G.	EPA-670/2-74-009
Bhutani, J.	EPA-600/2-75-007
Bhutani, J.	EPA-600/2-75-011
Bickelhaupt, E. E.	EPA-600/5-73-012d
Bickelhaupt, R. E.	EPA-600/2-75-017
Bienstock, D.	EPA-650/2-74-038
Bildstein, K.	EPA-600/5-73-012e
Billedeau, S. M.	EPA-650/2-74-068
Bingham, T. H.	EPA-600/5-74-009

PERSONAL AUTHOR INDEX

Bird Jr., A. V. EPA-650/2-73-035
Birks, L. S. EPA-600/4-75-002
Birks, L. S. EPA-650/2-73-006
Bishop, A. B. EPA-600/5-74-021
Bishop, A. B. EPA-600/5-74-010
Bishop, D. F. EPA-670/2-73-040
Bishop, D. F. EPA-670/2-73-037
Bishop, D. F. EPA-670/2-73-033
Bishop, D. F. EPA-670/2-73-075
Bishop, D. F. EPA-670/2-73-070
Bishop, D. F. EPA-670/2-73-073
Bishop, D. F. EPA-670/2-75-008
Bishop, D. F. EPA-670/2-75-052
Bishop, D. F. EPA-670/2-75-051
Black, A. P. EPA-660/2-74-055
Black, A. P. EPA-660/2-75-006
Black, S. C. EPA-680/1-75-001
Blakeslee, C. E. EPA-650/2-73-005
Blecher, W. A. EPA-600/2-75-078
Bledsoe, B. E. EPA-660/2-75-022
Blount, M. C. EPA-600/9-75-006
Bock, D. H. EPA-670/2-75-042
Bode, J. D. EPA-650/2-73-010
Boen, D. F. EPA-670/2-74-077
Boen, D. F. EPA-670/2-75-027
Boericke, R. B. EPA-600/2-75-062
Boettner, E. A. EPA-670/2-73-049
Bolton, R. E. EPA-670/2-74-068
Bolton, R. E. EPA-670/2-74-038
Bond, H. EPA-660/3-75-036
Bond, R. G. EPA-670/2-73-048
Bond, R. G. EPA-670/5-73-020
Bonz, P. E. EPA-670/2-73-069
Boone, J. E. EPA-650/2-73-012
Booth, R. L. EPA-670/4-74-002
Borgos, J. A. EPA-650/2-73-022
Bories, D. B. EPA-660/2-73-026
Borror, A. C. EPA-660/3-74-031
Boston, P. EPA-600/1-75-004
Bott, T. EPA-660/2-75-008
Bourquin, A. W. EPA-660/3-75-001
Bourquin, A. W. EPA-660/3-75-035
Bowman, M. M. EPA-660/3-75-004
Boyd, W. W. EPA-670/2-74-084
Boyle, W. C. EPA-660/3-75-022
Bradford, R. R. EPA-660/2-74-033
Bradshaw, J. S. EPA-660/2-75-007
Bradway, R. EPA-600/2-75-013a
Bradway, R. EPA-650/2-74-036
Bragg, G. M. EPA-660/2-74-083
Brand, B. G. EPA-670/2-74-014
Brashear, D. A. EPA-600/1-75-003
Brater, E. F. EPA-670/2-75-046
Braughan, D. A. EPA-670/2-74-084
Braughan, D. A. EPA-670/2-74-083
Brauhn, J. L. EPA-660/3-75-011
Bretthauer, E. W. EPA-680/1-75-001
Brezonik, P. L. EPA-660/3-73-002
Bricewell, L. EPA-660/3-74-016
Brier, G. W. EPA-650/4-75-010
Britt, L. O. EPA-600/2-75-038
Broadfoot, W. J. EPA-600/2-75-006
Brommenschenkel Jr., F. EPA-660/2-74-034
Brooks, E. EPA-600/2-75-012
Brooks, N. G. EPA-660/3-73-010
Brown, C. T. EPA-660/2-75-017
Brown, J. C. EPA-670/2-73-047a
Brown, J. W. EPA-650/2-73-029
Brown, L. R. EPA-660/3-75-024
Brownstein, A. B. EPA-600/5-75-007
Brows, D. EPA-670/2-74-095b
Bruckner, B. H. EPA-680/4-73-002
Brusewitz, G. H. EPA-660/2-75-009
Bryan, C. E. EPA-660/2-75-014
Budde, W. L. EPA-600/4-75-007
Budee, P. A. EPA-600/2-75-009
Bujak, P. EPA-600/5-73-012e
Burch, D. E. EPA-600/2-75-024
Burch, D. E. EPA-650/2-73-030
Burchfiled, H. P. EPA-650/2-74-068
Burchinal, J. C. EPA-670/2-73-083
Burge, W. D. EPA-600/2-75-034
Burklin, C. E. EPA-650/2-75-038
Burnklin, C. E. EPA-600/2-75-042
Burns, J. A. EPA-600/2-75-057
Burns, R. EPA-670/2-74-003
Burnsztynsky, T. A. EPA-600/2-75-049
Burrell, D. C. EPA-660/3-75-026
Bursztynsky, T. EPA-600/2-75-033
Burton, J. EPA-660/2-74-007
Buzzard, M. EPA-660/3-75-021
Byerley, J. J. EPA-670/2-74-059
Byram, K. V. EPA-600/3-75-015
Cabasso, I. EPA-670/1-75-001
Caceres, S. EPA-650/2-74-098a
Cagle, J. W. EPA-600/2-75-039
Cahill, T. A. EPA-600/2-75-074
Caldwell, E. EPA-650/1-74-004
Callaway, R. J. EPA-660/3-73-014
Callihan, C. D. EPA-670/2-73-095
Calvert S. EPA-600/2-75-021a
Calvert, S. EPA-600/2-75-018
Calvert, S. EPA-600/2-75-074
Calvert, S. EPA-650/2-73-036
Calvert, S. EPA-650/2-74-119b
Campbell, K. S. EPA-600/2-75-074
Campbell, T. L. EPA-670/2-73-103
Canter, L. EPA-660/2-74-037
Capper, J. EPA-670/2-74-044
Carawan, R. E. EPA-660/2-74-031
Cardin, F. A. EPA-670/5-74-004
Carlson, D. A. EPA-670/2-74-061
Carlson, O. N. EPA-670/2-73-091
Carpenter, B. H. EPA-650/2-74-097
Carroll, J. EPA-600/5-74-032
Carroll, T. E. EPA-670/2-75-049
Carter, S. EPA-600/5-73-016
Case, O. P. EPA-670/2-74-008
Case, P. O. EPA-670/2-75-029
Cass, R. EPA-600/2-75-013a
Cass, R. EPA-650/2-74-036
Cassel, A. H. EPA-670/2-73-040
Caster, R. EPA-660/3-74-016
Cavanaugh, E. C. EPA-600/2-75-042
Cavanaugh, E. C. EPA-600/2-75-068
Cavanaugh, G. EPA-650/2-75-038
Cawlfield, D. E. EPA-600/3-75-015
Cerrillo, L. A. EPA-660/3-75-018
Chagy, Y. C. EPA-660/2-73-029
Chamberlain, S. G. EPA-600/5-74-004
Chambers, M. D. EPA-600/5-74-021
Chan, F. K. EPA-650/2-74-072
Chaney, R. L. EPA-600/2-75-034
Chang, J. EPA-660/3-75-026
Chang, N. L. EPA-660/2-73-030
Chansky, S. EPA-600/5-74-032

PERSONAL AUTHOR INDEX

Chappelow, C. C.	EPA-600/9-75-005
Charlie, W. A.	EPA-670/2-74-076b
Chase, G.	EPA-670/2-74-044
Chasse, J.	EPA-660/2-73-001
Chatterjee, S.	EPA-600/5-74-016
Chaung, S. C.	EPA-660/3-74-004b
Chen, C. L.	EPA-600/2-75-047
Chernoff, N.	EPA-650/1-73-001
Cherry Jr., R. H.	EPA-670/2-75-018
Chesness, J. L.	EPA-660/2-74-064
Chi, C. T.	EPA-600/2-75-045
Chian, E. S. K.	EPA-600/3-75-011
Chin, F. Y.	EPA-600/5-75-004
Choi, P.	EPA-600/2-74-001
Choi, P. S. K.	EPA-600/2-75-073
Christianson, A. G.	EPA-660/2-73-016
Christianson, C. B.	EPA-660/2-74-070
Chung, J.	EPA-650/2-73-027
Citron, R.	EPA-600/4-75-001
Clar, M. L.	EPA-660/2-74-071
Clark, D. A.	EPA-660/2-74-038
Clark, D. A.	EPA-660/2-74-065
Clark, M. J.	EPA-670/2-75-019
Clark, R. M.	EPA-670/1-74-001
Clark, R. M.	EPA-670/2-74-067
Clark, R. M.	EPA-670/5-73-012
Clarke, N. A.	EPA-600/1-75-003
Clements III, E. V.	EPA-670/2-75-038
Clements, E. V.	EPA-660/2-74-075
Clesceri, N. L.	EPA-660/3-73-003
Clesceri, N. L.	EPA-670/2-74-063
Cliese, J. D.	EPA-660/2-74-060
Cobian, K. E.	EPA-660/2-73-033
Cocchetto, J. F.	EPA-600/2-75-063
Cochran, R. A.	EPA-670/2-73-084
Cohen, A. I.	EPA-600/5-75-015
Cohen, D. B.	EPA-600/2-75-035
Cohen, I. M.	EPA-660/2-74-053
Cohen, S.	EPA-670/2-74-071
Cohn, M. M.	EPA-600/2-75-062
Cohn, M. M.	EPA-670/2-74-026
Cohn, M. M.	EPA-670/2-74-039
Cohn, S.	EPA-600/5-73-015
Cole, C. A.	EPA-670/2-73-033
Cole, D. E.	EPA-670/2-75-061
Colley, J. D.	EPA-600/2-75-068
Collins, A. G.	EPA-660/2-74-010
Collins, D. C.	EPA-650/4-74-001
Collins, J.	EPA-660/2-74-069
Colston, N. V.	EPA-670/2-74-096
Colwell, R. R.	EPA-600/3-75-007
Conden Jr., R. L.	EPA-670/2-73-024
Conn, W. D.	EPA-600/5-75-018
Conner, W.	EPA-650/2-74-013
Converse, A. O.	EPA-670/2-73-011
Cook, D. W.	EPA-660/3-75-024
Cooley, A. M.	EPA-660/2-74-093
Cooley, P. C.	EPA-600/5-74-009
Cooney, R. T.	EPA-660/3-75-026
Cooper, D.	EPA-600/5-74-016
Cooper, D. W.	EPA-600/2-75-054
Cooper, G. R.	EPA-600/2-75-041
Cooper, K. G.	EPA-600/5-75-013
Cooper, K. G.	EPA-600/5-75-002
Cooper, P. C.	EPA-600/5-73-012c
Cordle, S. R.	EPA-600/2-75-010
Coulon, C.	EPA-660/3-75-026
Counts, C. A.	EPA-670/2-75-012
Coursey, J. F.	EPA-650/2-74-004
Courtney, K. D.	EPA-650/1-73-001
Coutts, H. J.	EPA-660/2-74-070
Cox, M. F.	EPA-660/3-74-021
Craft, T. F.	EPA-660/2-75-017
Craig, S. E.	EPA-650/2-74-046a
Crane, J. D.	EPA-600/2-75-049
Crane, J. J.	EPA-660/3-75-026
Crawford, A. R.	EPA-600/2-75-053
Crawford, N. H.	EPA-660/2-74-013
Crites, R. W.	EPA-660/2-73-006a
Crites, R. W.	EPA-660/2-73-006b
Crosswhite, W. M.	EPA-660/2-74-031
Crowder, D. G.	EPA-670/2-73-067
Cruver, J. E.	EPA-670/2-75-009
Csanady, G. T.	EPA-660/2-74-083
Csanady, G. T.	EPA-660/2-74-082
Csanady, G. T.	EPA-660/3-73-011
Culp, J. H.	EPA-660/2-75-021
Cummings, F. H.	EPA-600/5-74-018
Currier, R. A.	EPA-670/2-73-005
Curtin, C.	EPA-650/2-73-050
Curtis, V.	EPA-600/5-75-009
Cushing, K. M.	EPA-650/2-73-035
Cushing, K. M.	EPA-650/2-74-102a
Cutkomp, L. K.	EPA-660/2-73-027
Cyr, J. W.	EPA-660/2-74-088
Dalrymple, R. J.	EPA-670/2-75-011
Daly, W. H.	EPA-670/2-75-032
Damron, B. L.	EPA-660/2-75-001
Dangel, R. A.	EPA-670/2-75-036
Daniels, S. L.	EPA-670/2-73-103
Darling, J. E.	EPA-670/2-75-022
Daul, F. R.	EPA-660/2-74-012
Davanzo, A. C.	EPA-670/2-75-020
Davenport, C. V.	EPA-660/2-73-005
Davidson, J. M.	EPA-660/2-75-009
Davis, A. E.	EPA-600/2-74-003
Davis, H. L.	EPA-670/2-75-063
Davis, H. R.	EPA-660/2-75-019
Davis, L. R.	EPA-660/3-75-039
Davis, T. A.	EPA-670/2-75-043
Dawson, G. W.	EPA-670/2-73-078
Day, D. E.	EPA-670/2-73-038
Day, D. E.	EPA-670/2-75-053
De La Fuente, E.	EPA-600/2-75-038
De Primo, M. J.	EPA-670/2-73-098
Dearby, R. L.	EPA-670/4-74-003a
Decker, C. E.	EPA-650/2-74-019
Demerjian, K. L.	EPA-650/3-73-002
Demeter, J.	EPA-650/2-74-038
Dennis, R.	EPA-650/2-74-036
Derrington, R. E.	EPA-670/2-73-060
DeBose, A. T.	EPA-660/2-74-055
DeDecker, F. J.	EPA-670/2-75-010
DeLuca, F. A.	EPA-660/2-74-056
DeLucia, R. J.	EPA-600/5-74-030
DeLucia, R. J.	EPA-600/5-75-001
DeWalle, F. B.	EPA-600/3-75-011
DeWitt Jr., F. A.	EPA-670/2-75-044
DeWitt Jr., F. A.	EPA-670/2-75-059
DeWitt, Jr., F. A.	EPA-670/2-75-003
Dickerman, J. C.	EPA-600/2-75-042
Dickerson, J. C.	EPA-650/2-75-038
Dickson, E. M.	EPA-600/2-74-002
Diesch, S. L.	EPA-660/2-75-012
Diesch, S. L.	EPA-670/2-73-051
Dietzmann, H. M.	EPA-600/2-75-048

PERSONAL AUTHOR INDEX

Dimduro, P	EPA-650/2-73-009
Dismukes, E. B.	EPA-600/2-75-015
Ditoro, D. M.	EPA-660/3-73-009
Ditsworth, G. R.	EPA-660/3-73-014
Dixon, P. S.	EPA-660/3-73-015
DiGiano, F. A.	EPA-670/2-75-065
DiToro, D. M.	EPA-660/3-75-005
Do, L.	EPA-650/2-74-098a
Dodds, H.	EPA-650/2-73-009
Donigian, A. S.	EPA-660/2-74-013
Dorion, G.	EPA-660/2-74-074
Dornbusch, D. M.	EPA-600/5-73-005
Dornbush, J. N.	EPA-660/2-74-005
Dorough, U. W.	EPA-650/1-74-002
Doskey, P. V.	EPA-600/3-75-005
Dostal, K. A.	EPA-660/2-74-058
Douglas, G.	EPA-660/2-73-037
Downing, P. B.	EPA-600/5-73-014
Doyle, A.	EPA-650/2-73-023
Doyle, F. J.	EPA-670/2-74-009
Doyle, J. R.	EPA-670/2-75-022
Drake, J. A.	EPA-650/2-73-014
Dressler, F. R.	EPA-670/2-75-041
Driscoll, J.	EPA-650/2-73-050
Drost-Hansen, W.	EPA-660/3-74-003
Duchene, A. G.	EPA-670/5-74-001
Duffee, R. A.	EPA-650/2-74-008a
Dugal, H. S.	EPA-660/2-74-029
Dugan, P. R.	EPA-600/2-75-032
Duke, H. R.	EPA-660/2-75-015
Duncan, L. J.	EPA-600/2-74-004
Dunlap, C. E.	EPA-670/2-73-095
Dunlap, W. J.	EPA-660/2-73-014
Durfre, R. L.	EPA-650/4-73-003
Duvall, D. S.	EPA-670/2-75-033b
Duvall, D. S.	EPA-670/2-75-033a
Duvall, D. S.	EPA-670/2-75-033d
Duvall, D. S.	EPA-670/2-75-033c
Dwyer, W. P.	EPA-600/3-75-013
Dygas, J. A.	EPA-660/3-75-026
Dzierlenga, P. S.	EPA-600/2-75-068
Easterly, D. G.	EPA-680/4-75-007
Edinger, J.	EPA-660/2-74-053
Egan, B.	EPA-600/3-75-003a
Egan, B.	EPA-600/3-75-003b
Ehreth, D. J.	EPA-670/9-75-004
Eichelberger, J. W.	EPA-600/4-75-007
Eilers, R. G.	EPA-670/2-73-045
Eilers, R. G.	EPA-670/2-73-046
Eilers, R. G.	EPA-670/2-73-044
Eilers, R. G.	EPA-670/2-74-069
Eimutis, E. C.	EPA-600/2-75-045
Eisenmann, J. L.	EPA-670/2-73-076
Eisler, R.	EPA-600/3-75-002
Eisler, R.	EPA-600/3-75-008
Ekmann, J. M.	EPA-600/2-75-075
Eldridge, J. E.	EPA-670/4-75-006
Elfers, K.	EPA-600/5-73-015
Eliassen, R.	EPA-670/2-73-010
Elliott, L. F.	EPA-660/2-75-015
Ellis, E. C.	EPA-600/4-75-003
Ellis, W. J.	EPA-660/2-74-057
Emerson, D. B.	EPA-660/2-73-035
Emerson, M. J.	EPA-600/5-73-008a
Enfield, C. G.	EPA-660/2-75-022
Englebrecht, R. S.	EPA-670/2-73-082
Engler, M. R.	EPA-600/2-75-040
English, J. N.	EPA-600/9-75-007
Enns, K.	EPA-670/2-74-059
Ensor, D. S.	EPA-600/2-75-074
Epstein, E.	EPA-600/2-75-034
Epstein, M.	EPA-600/2-75-050
Epstein, M.	EPA-650/2-73-013
Epstein, M.	EPA-650/2-74-010
Epstein, M. J.	EPA-600/5-75-017
Erickson, A. E.	EPA-660/2-74-057
Erley, D.	EPA-600/5-75-005
Ernst, E.	EPA-670/5-75-001
Ernst, U. F.	EPA-600/5-74-018
Evans, W. E.	EPA-650/4-73-002
Everson, T. C.	EPA-660/2-74-025
Eyer, C. S.	EPA-670/1-75-001
Falkenborg, D. H.	EPA-670/9-75-004
Falter, C. M.	EPA-660/3-73-017
Fan, L. S.	EPA-600/2-75-023
Farmer, W. J.	EPA-660/2-74-054
Farnham, W. B.	EPA-660/2-74-040
Farquhar, J.	EPA-660/2-74-075
Farrah, S. R.	EPA-670/2-74-018
Farrell, J. B.	EPA-670/2-75-013
Farrell, P. J.	EPA-660/2-73-010
Feige, W. A.	EPA-600/2-75-036
Felder, M.	EPA-600/5-73-012a
Feldman, M. H.	EPA-600/3-75-015
Feldman, M. H.	EPA-660/3-73-013
Felix, V. M.	EPA-600/2-75-068
Fensterstock, J. C.	EPA-600/5-74-015
Fenters, J. D.	EPA-650/1-73-002
Ferens, M. C.	EPA-660/3-73-022
Ferguson, R. A.	EPA-650/2-73-037
Ferguson, T. L.	EPA-600/2-75-041
Ferguson, T. L.	EPA-660/2-74-094
Ferguson, T. L.	EPA-670/2-75-057
Fernandes, S. R.	EPA-600/2-75-042
Ferrar, T. A.	EPA-600/5-75-007
Feuerstein, D.	EPA-600/2-75-033
Feuerstein, D. L.	EPA-670/2-75-037
Fhir, C. C.	EPA-600/4-75-005a
Field, R.	EPA-670/2-73-059
Field, R.	EPA-670/2-74-090
Finger, R. E.	EPA-670/2-74-061
First, M. W.	EPA-670/2-73-017
Fischer, J. R.	EPA-660/2-74-036
Fisette, G. R.	EPA-670/2-74-066
Fisher, J. H.	EPA-660/2-74-028
Fisk, A. T.	EPA-670/2-74-020
Fitzgerald, G. P.	EPA-660/3-73-023
Flegal, C.	EPA-600/2-75-012
Flegal, C. A.	EPA-650/2-74-025
Fleischer, L. R.	EPA-670/2-73-006
Flinn, J. E.	EPA-600/5-74-005
Flocchini, R. G.	EPA-600/2-75-074
Fober, H. A.	EPA-660/2-73-020
Fogel, M. E.	EPA-600/5-74-009
Fojo, C. V.	EPA-600/2-75-009
Foley, G.	EPA-600/2-75-070
Fookson, A.	EPA-670/2-73-052
Foran, J. F.	EPA-670/2-74-024B
Foran, J. F.	EPA-670/2-74-024A
Fordyce, I. V.	EPA-660/2-74-093
Forso, K.	EPA-660/2-74-069
Foster, C. B.	EPA-600/2-75-011
Foster, D. H.	EPA-670/2-73-082
Francey, G. J.	EPA-670/2-75-002
Franco, N. B.	EPA-670/2-74-023
Frank, C.	EPA-660/9-74-002

PERSONAL AUTHOR INDEX

Fraser, J. P.	EPA-670/2-73-084
Frost, M.	EPA-600/5-73-016
Freed, V. H.	EPA-670/2-74-027
Freeman III, A. M.	EPA-600/5-74-029
Fremount, H. A.	EPA-660/2-73-019
Frey, P. J.	EPA-660/3-75-019
Frey, P. J.	EPA-660/3-75-020
Friberg, L.	EPA-600/1-75-004
Friberg, T. S.	EPA-660/2-75-028
Frohnsdorff, G.	EPA-670/2-73-052
Frost, R. R.	EPA-650/2-73-044
Fryer, J. L.	EPA-660/3-73-020
Frykberg, W. R.	EPA-600/3-75-009
Fuhriman, D. K.	EPA-660/2-75-007
Fullerton, D. G.	EPA-600/2-75-035
Fullerton, H. H.	EPA-600/5-74-021
Funkhouser, J. T.	EPA-650/2-73-023
Gaby, W. L.	EPA-670/2-75-023
Gagliano, S. M.	EPA-600/5-75-006
Gahler, A. R.	EPA-660/3-74-015
Gaines, F. R.	EPA-600/2-75-030
Gales, M. E.	EPA-670/4-74-002
Galina, G.	EPA-600/2-75-062
Garner, W.	EPA-670/2-74-048
Gass, P. J.	EPA-600/5-74-008
Gaufin, A. R.	EPA-660/3-73-004
Gaufin, A. R.	EPA-660/3-74-023
Gehrs, C. W.	EPA-660/3-74-006
Geinopolos, A.	EPA-670/2-74-025
Geldreich, E. E.	EPA-670/9-75-006
Genco, J. M.	EPA-670/2-75-049
Gerba, J.	EPA-600/5-75-011
Gerber, N. N.	EPA-670/2-74-094
Gerhard, J.	EPA-650/3-74-009
Gerloff, G. C.	EPA-660/3-75-027
Gerstle, R. W.	EPA-650/2-75-057j
Gessford, J. E.	EPA-600/5-75-017
Giever, P.	EPA-650/2-73-023
Gilfrich, J. V.	EPA-600/4-75-002
Gilfrich, J. V.	EPA-650/2-73-006
Gillean, J. I.	EPA-670/5-73-012
Gillett, J. W.	EPA-660/3-74-024
Gillmeister, R. J.	EPA-650/2-74-046b
Giramonti, A. J.	EPA-600/2-75-078
Glass, G. E.	EPA-600/3-75-012
Glasser, W. G.	EPA-660/2-74-069
Glueckert, A. J.	EPA-670/2-75-007
Goddard, H. C.	EPA-600/5-75-019
Goddard, H. C.	EPA-670/1-74-001
Gold, S.	EPA-600/4-75-011
Goldman, C. R.	EPA-660/3-74-034
Goldschmidt, V. W.	EPA-660/3-74-004b
Goldschmidt, V. W.	EPA-660/3-74-004a
Goldshmid, J.	EPA-650/2-73-036
Goldsmith, R. L.	EPA-660/2-73-019
Gonzalez, N.	EPA-650/2-74-098a
Goodnight, G. J.	EPA-600/3-75-009
Goodrich, P. R.	EPA-660/2-75-012
Gordon, R. C.	EPA-660/2-73-005
Gorman, P. G.	EPA-600/5-74-007
Gove, C. S.	EPA-670/2-73-065
Gram, A. L.	EPA-660/2-73-022
Grant, F.	EPA-660/2-74-034
Gratzl, J. S.	EPA-650/2-74-005
Gratzl, J. S.	EPA-660/2-74-069
Gray, A. F.	EPA-660/2-74-036
Gray, R. A.	EPA-650/2-74-046b
Green, A. C.	EPA-670/2-74-056
Green, E. E.	EPA-650/2-74-068
Green, O.	EPA-670/2-73-103
Greening, E. D.	EPA-670/2-73-082
Greenlund, T. W.	EPA-600/2-75-030
Gregord, M. W.	EPA-600/2-75-053
Gresswell, R. E.	EPA-660/3-73-019
Grethlein, H. E.	EPA-670/2-73-011
Griffin, L. I.	EPA-650/2-74-035
Grim, E. C.	EPA-670/2-74-093
Grimsley, D. H.	EPA-600/5-73-012d
Grimsrud, G. P.	EPA-600/5-75-015
Groner, R. R.	EPA-670/2-74-027
Groseclose, J. L.	EPA-670/2-73-098
Grossman, D. S.	EPA-670/2-75-026a
Grossman, D. S.	EPA-670/2-75-026b
Grube Jr, W. E.	EPA-670/2-74-070
Grupenhoff, B. L.	EPA-670/2-74-067
Grutsch, J. F.	EPA-660/2-75-025
Gryvnak, D. A.	EPA-600/2-75-024
Gumtz, G. D.	EPA-670/2-73-068
Gumtz, G. D.	EPA-670/2-74-013
Gumtz, G. D.	EPA-670/2-74-097
Gumtz, G. D.	EPA-670/2-75-056
Guttman, J.	EPA-600/5-73-012b
Guzdar, A. R.	EPA-670/2-74-021
Guzdar, A. R.	EPA-670/2-74-020
Guzdar, A. R.	EPA-670/2-74-019
Haderlie, E. E.	EPA-660/3-75-013
Hagarman, J. A.	EPA-670/2-75-041
Haile, C. L.	EPA-660/3-75-022
Hais, A. B.	EPA-670/2-73-073
Hais, A. B.	EPA-670/2-75-008
Hale, A. M.	EPA-660/2-74-083
Hall, C. F.	EPA-670/2-73-041
Hall, E.	EPA-600/2-74-001
Hall, E. D.	EPA-670/2-73-044
Hall, E. D.	EPA-670/2-73-045
Hall, E. D.	EPA-670/2-73-046
Hall, G. E.	EPA-660/3-75-026
Hall, R. E.	EPA-650/2-73-031
Hall, R. E.	EPA-650/2-74-003
Halligan, B. J.	EPA-600/3-75-012
Halligan, J. E.	EPA-660/2-74-090
Hallowell, J. B.	EPA-670/2-75-055
Hamersma, J. W.	EPA-650/2-74-025a
Hamersma, J. W.	EPA-650/2-74-025
Hamil, H. F.	EPA-650/4-74-022
Hamil, H. F.	EPA-650/4-74-021
Hammer Jr., P. G.	EPA-600/5-73-007
Hammond, V. L.	EPA-670/2-75-014
Hanks, R. J.	EPA-660/2-75-005
Hansen, C. A.	EPA-670/2-75-019
Hansen, C. M.	EPA-660/2-74-057
Hansen, R. P.	EPA-600/5-75-008
Hanson, P.	EPA-600/5-75-017
Happel, J.	EPA-650/2-73-020
Hardin, B. D.	EPA-660/3-74-006
Hare, C. P.	EPA-670/2-74-092
Harman, D. J.	EPA-670/9-73-056
Harms, L. L.	EPA-660/2-74-005
Harnett, L.	EPA-600/2-75-012
Harrington, J.	EPA-600/5-74-020
Harris, R. F.	EPA-660/3-75-006
Harstkatte Jr., G. A.	EPA-670/2-73-064
Hart, F. D.	EPA-600/2-75-010
Harvey, R. D.	EPA-650/2-73-044
Hatch, L. T.	EPA-660/2-73-036
Hawkins, B. K.	EPA-660/2-74-031

PERSONAL AUTHOR INDEX

Haynie, F. H.	EPA-650/3-74-009
Hazen, T. E.	EPA-660/2-74-009
Heaney, J. P.	EPA-600/5-74-013
Heaney, J. P.	EPA-670/2-75-022
Heaney, J. P.	EPA-670/2-75-017
Hebert, R.	EPA-650/2-73-050
Heble, L. R.	EPA-660/2-73-010
Hecht, N. L.	EPA-670/2-75-033b
Hecht, N. L.	EPA-670/2-75-033a
Hecht, N. L.	EPA-670/2-75-033d
Hecht, N. L.	EPA-670/2-75-033c
Hedley, W. H.	EPA-600/2-75-045
Heenan, A. T.	EPA-670/2-74-024B
Heenan, A. T.	EPA-670/2-74-024A
Heeney, J. M.	EPA-670/2-74-043
Heidman, J. A.	EPA-670/2-75-052
Heidman, J. A.	EPA-670/2-75-051
Heimburg, R. W.	EPA-670/2-73-087
Hein, C. J.	EPA-600/5-74-024
Helmers, A. E.	EPA-660/3-74-009
Hemphill, D. P.	EPA-670/2-73-084
Hemphill, J. M.	EPA-600/5-75-017
Hendricks, G. F.	EPA-600/2-75-072
Henry, W. M.	EPA-600/4-75-009
Hensley, E. F.	EPA-600/2-75-051
Henson, L. J.	EPA-600/2-75-006
Herkert, E. C.	EPA-670/2-73-071
Herzog, K. L.	EPA-660/2-74-090
Heukelekian, H.	EPA-670/2-73-027
Hicks, H. C.	EPA-660/2-73-023
Hill IV, J.	EPA-660/3-74-024
Hill, R. D.	EPA-670/2-74-093
Himmelstein, H. L.	EPA-600/5-73-012b
Hissong, D. W.	EPA-600/2-75-073
Hissong, D. W.	EPA-600/2-75-066
Hnatow, M.	EPA-650/2-73-020
Hodd, S. L.	EPA-670/2-75-011
Hoffman, D. A.	EPA-670/2-73-039
Hoffman, L.	EPA-650/2-74-030
Hogan, C. M.	EPA-660/2-73-003
Hoke, R. C.	EPA-650/2-74-001
Holberger, R.	EPA-600/2-75-007
Holdren, G. C.	EPA-660/3-75-006
Holland, J.	EPA-600/5-75-014
Holm, H. W.	EPA-660/3-73-007
Holm, H. W.	EPA-660/3-74-021
Holm, R. A.	EPA-660/2-73-030
Holuec, I.	EPA-670/2-73-081
Honack, P.	EPA-670/2-73-071
Honea, F. L.	EPA-600/2-75-041
Hong, S.	EPA-670/2-74-035b
Hooks, D. B.	EPA-670/2-75-043
Hoot, F. M.	EPA-600/2-75-060
Hoover, A. W.	EPA-650/1-74-001
Hoover, T. B.	EPA-660/4-75-001
Hopkins, H. T.	EPA-660/2-74-071
Horne, R.	EPA-670/2-75-024
Hornsback, K. E.	EPA-600/5-74-011
Horowitz, A.	EPA-650/4-74-001
Horsnback, K. E.	EPA-600/5-73-012b
Hortenstine, C. C.	EPA-670/2-73-063
Horton, W.	EPA-600/5-73-012e
Hosenfeld, J. M.	EPA-650/1-74-003
Householder, M. K.	EPA-660/2-73-032
Howell, M. P.	EPA-600/5-75-002
Howell, M. P.	EPA-600/5-75-013
Howes, J. R.	EPA-670/2-73-041
Hoyland, J. R.	EPA-660/2-74-004
Hoyland, J. R.	EPA-660/2-74-048
Hoyt, A.	EPA-650/2-75-003
Hoyt, A.	EPA-650/4-75-017
Hoyt, A.	EPA-650/4-75-020
Hoyt, A.	EPA-650/4-75-025
Hrutfiord, B. F.	EPA-660/2-75-028
Hrutfiord, B. F.	EPA-660/2-74-069
Huang, C.	EPA-600/2-75-033
Huang, C. H.	EPA-670/2-75-037
Hubber, C. O.	EPA-670/2-73-079
Huber, W. C.	EPA-600/5-74-013
Huber, W. C.	EPA-670/2-75-017
Huber, W. C.	EPA-670/2-75-022
Hudson, J. F.	EPA-670/2-75-026a
Hudson, J. F.	EPA-670/2-75-026b
Hufschmidt, M. M.	EPA-600/5-73-015
Hughes Jr., E. E.	EPA-600/2-74-002
Hughes, E. E.	EPA-600/2-75-009
Huisking, T.	EPA-600/2-75-018
Humbel, D. E.	EPA-660/2-73-017
Hundal, M. S.	EPA-660/3-75-037
Hunt, G. W.	EPA-660/3-74-006
Hutchinson, G. L.	EPA-660/2-75-015
Ifeader, C.	EPA-600/5-74-016
Ifeadi, C.	EPA-670/2-75-058
Ifeadi, C. N.	EPA-670/2-75-049
Iglar, A. F.	EPA-670/2-73-048
Ingersol, C.	EPA-600/3-75-003a
Ingersol, C.	EPA-600/3-75-003b
Ingersoll, R. B.	EPA-650/2-73-043
Irwin, J. S.	EPA-600/4-75-004
Irwin, W. A.	EPA-600/5-74-025
Irwin, W. A.	EPA-600/5-74-026
Isaacs, G. A.	EPA-650/2-75-057l
Isaacs, G. A.	EPA-650/2-75-057e
Isaacs, G. A.	EPA-650/2-75-057k
Isaacs, G. A.	EPA-650/2-75-057f
Isaacs, G. A.	EPA-650/2-75-057j
Isaacs, G. A.	EPA-650/2-75-057h
Isaacs, G. A.	EPA-650/2-75-057g
Iura T.	EPA-650/2-73-014
Jabb, D. C.	EPA-660/3-74-014
Jackson, B. S.	EPA-600/2-75-074
Jackson, K.	EPA-660/2-74-087
Jacob, B. L.	EPA-660/2-74-019
Jacobs, T. O.	EPA-670/2-73-086
Jacobsen, J. E.	EPA-600/5-75-014
Jacobsen, W. E.	EPA-600/2-75-007
Jahnig, C. E.	EPA-650/2-74-009a
Jahnig, C. E.	EPA-650/2-74-009h
Jahnig, C. E.	EPA-650/2-74-009i
Jahnig, C. E.	EPA-650/2-74-009j
Jaksch, J. A.	EPA-600/5-74-017
Jamgochian, E. M.	EPA-600/2-75-011
Jamgochian, E. M.	EPA-600/2-75-037
Jarmuth, R. A.	EPA-660/2-73-023
Jarvis, A. N.	EPA-680/4-75-007
Jaryinen, A. W.	EPA-660/3-74-024
Jaworski, E.	EPA-660/3-74-029
Jaye, F.	EPA-650/2-74-013
Jedlicka, C.	EPA-660/2-73-004
Jensen, M. E.	EPA-600/2-75-064
Jewell, W. J.	EPA-660/2-75-019
Jhaveri, N.	EPA-600/2-75-018
Jhaveri, N.	EPA-650/2-73-036
Johannsen, G. L.	EPA-670/2-75-027
Johannson, G. L.	EPA-670/2-74-077
Johanson, L. N.	EPA-660/2-74-069

PERSONAL AUTHOR INDEX

Johndrew Jr., O. F.	EPA-660/2-75-019
Johns, F. B.	EPA-680/4-75-001
Johnson, D. E.	EPA-650/1-74-003
Johnson, L. D.	EPA-650/2-74-050
Johnson, T. E.	EPA-650/2-74-012
Johnson, W. B.	EPA-650/4-73-002
Johnston, D. R.	EPA-600/5-74-009
Johnston, H. S.	EPA-650/4-74-004
Jokela, A.	EPA-600/5-74-023
Jolley, R.	EPA-660/2-74-076
Jones, D. C.	EPA-600/2-75-068
Jones, I. S. F.	EPA-660/2-74-082
Jones, M. V.	EPA-600/2-75-045
Jones, R.	EPA-600/2-75-045
Jones, R. H.	EPA-600/2-75-049
Jones, R. H.	EPA-660/2-75-001
Jones, R. S.	EPA-660/3-73-005
Jordan, D. M.	EPA-670/2-74-097
Jordening, D. L.	EPA-600/5-73-008a
Jordening, D. L.	EPA-600/5-73-008b
Jordening, D. L.	EPA-600/5-74-014
Jordening, D. L.	EPA-600/5-74-028
Jorgensen, R.	EPA-600/5-74-019
Jorque, M. A.	EPA-660/2-74-077
Joyce, J. M.	EPA-670/2-74-037
Joyce, M.	EPA-670/2-75-045
Julian, E. C.	EPA-670/4-75-004a
Julian, E. C.	EPA-670/4-75-004b
Justice, C. A.	EPA-660/3-73-015
Kah, R. C.Y.	EPA-660/2-73-029
Kahler, J. P.	EPA-600/4-75-004
Kahn, B.	EPA-670/4-75-006
Kahn, H. A.	EPA-650/2-74-098a
Kaiser, E. J.	EPA-600/5-73-015
Kaiser, E. L.	EPA-670/2-73-023
Kalfadelis, C. D.	EPA-650/2-74-009b
Kalfadelis, C. D.	EPA-650/2-74-0091
Kambhu, K.	EPA-670/2-73-061
Kania, H. J.	EPA-660/3-73-025
Kany, S. J.	EPA-600/2-75-029
Kaplovsky, A. J.	EPA-670/2-73-027
Karandikar, S.	EPA-670/2-73-011
Kardos, L. T.	EPA-660/2-74-003
Kardos, L. T.	EPA-660/2-74-016
Karuvian, J. F.	EPA-680/4-74-002
Katz, S.	EPA-660/2-74-076
Kaufman, J. A.	EPA-670/2-75-031
Keairns, D. L.	EPA-650/2-75-027c
Keefe, M.	EPA-600/3-75-003a
Keefer, M.	EPA-600/3-75-003b
Keeney, D. R.	EPA-660/3-73-024
Keier, P. M.	EPA-670/2-74-037
Keith, L. W.	EPA-660/4-75-005
Keitz, E. L.	EPA-600/2-74-004
Kelly, J. A.	EPA-670/2-73-030
Kendall, D. A.	EPA-650/2-73-025
Kenney, B. C.	EPA-660/2-74-082
Kent, G. C.	EPA-670/2-74-067
Kern, P. L.	EPA-670/2-75-016
Kesselring, R. C.	EPA-650/2-74-023
Ketchum, L. A.	EPA-670/2-74-047
Keys, J. M.	EPA-600/5-74-024
Kimbrough, R. D.	EPA-660/2-75-017
Kimmelstein, B.	EPA-600/5-73-012e
Kincannon, B.	EPA-600/5-74-032
King, A. H.	EPA-660/2-73-018
King, L. G.	EPA-660/2-75-005
Kingston, J. C.	EPA-660/3-75-004
Kinney, P. J.	EPA-660/3-75-026
Kirchmer, C. J.	EPA-660/2-74-021
Kirkpatrick, G. A.	EPA-600/2-75-027
Kirkpatrick, G. A.	EPA-600/2-75-065
Kittelson, D. B.	EPA-650/3-73-002
Klein, D. H.	EPA-660/2-73-008
Klein, E.	EPA-670/1-75-001
Klug, W.	EPA-600/4-75-006
Knittel, M. D.	EPA-660/2-75-024
Knudson, W.	EPA-660/2-74-088
Kobayashi, S.	EPA-670/2-74-063
Koch, C.	EPA-600/2-75-062
Kocmond, W. C.	EPA-650/3-73-002
Koehler, G.	EPA-600/2-75-057
Koehrsen, L. G.	EPA-660/2-74-014
Koenst, W. M.	EPA-660/3-75-017
Kolpin, M.	EPA-600/2-75-012
Koogler, J. B.	EPA-650/2-73-007
Kopp Jr., C. V.	EPA-660/2-73-033
Koppel, L. M.	EPA-600/5-75-001
Kos, P.	EPA-670/2-74-037
Kraft, M. L.	EPA-650/2-74-025a
Kraft, M. L.	EPA-650/2-74-025
Krajeski, E. P.	EPA-600/2-74-004
Krajeski, E. P.	EPA-600/2-75-011
Kramer, M.	EPA-670/2-74-078
Krause, H. H.	EPA-670/2-74-083
Krause, H. H.	EPA-670/2-74-084
Krause, H. H.	EPA-670/2-75-058
Kreissl, J. F.	EPA-600/2-75-036
Kreusch, E.	EPA-660/2-74-007
Kroner, R. C.	EPA-670/4-74-008
Krope, E.	EPA-600/2-74-001
Kropp, E. L.	EPA-600/2-75-067
Kropp, E. L.	EPA-600/2-75-073
Krueger, W. F.	EPA-670/2-73-041
Kuhner, J.	EPA-670/2-74-038
Kuhner, J.	EPA-670/2-74-065
Kuhner, J.	EPA-670/2-74-068
Kuhrtz, S.	EPA-670/2-73-011
Kurg, E. K.	EPA-670/2-74-043
Kursch, S. J.	EPA-600/5-73-012c
La Rosa, P. J.	EPA-670/2-74-001
Lackey, L. L.	EPA-670/2-73-086
Lager, J. A.	EPA-670/2-74-040
Lager, J. A.	EPA-670/2-74-090
Lake, C.	EPA-600/2-75-074
Lakomski, T. D.	EPA-670/2-74-091
Lamb, T. J.	EPA-600/2-75-016
Lamborn, K. R.	EPA-660/3-75-037
Lancy, L. E.	EPA-670/2-75-015
Landreth, R.	EPA-670/2-75-005
Landreth, R. E.	EPA-670/2-74-088
Landrigan, R. B.	EPA-670/2-75-055
Lang, E. W.	EPA-660/2-75-004
Larson, D. H.	EPA-650/2-73-033b
Larson, D. H.	EPA-650/2-73-033a
Larson, R.	EPA-660/2-75-008
Larson, T. E.	EPA-670/2-73-029
Lassiter, R. R.	EPA-660/3-75-012
Laster, L. L.	EPA-650/2-73-046
Lauch, R. P.	EPA-600/4-75-012
Lauch, R. P.	EPA-670/4-74-007
Lauch, R. P.	EPA-670/4-75-003
Lauch, R. P.	EPA-670/4-75-001
Laughlin, J. E.	EPA-670/2-73-060
Laver, M. L.	EPA-670/2-73-005
Lavergne, E. A.	EPA-600/2-74-006

PERSONAL AUTHOR INDEX

Lawhon, W.	EPA-600/5-74-016
Lawless, E. W.	EPA-670/2-75-057
LaBeau, B.	EPA-670/2-73-103
Leary, R. D.	EPA-670/2-73-050
Leatherwood, J. M.	EPA-670/2-73-090
Lebowitz, H. E.	EPA-650/2-75-038
Lechevalier, H. A.	EPA-600/2-75-031
Leckie, J. O.	EPA-670/2-73-010
Lee J. H.	EPA-660/3-75-015
Lee, A. A.	EPA-650/2-74-025
Lee, G. F.	EPA-660/3-75-022
Lee, J. M.	EPA-660/3-75-016
Lee, S. H.	EPA-670/2-73-082
Lee, W. L.	EPA-660/3-75-013
Leekley, R. M.	EPA-660/2-74-029
Leiro, C. C.	EPA-650/2-74-010
Leith, D.	EPA-650/2-73-036
Lemer, A.	EPA-600/5-74-001
Lenhart, C. F.	EPA-600/2-75-039
Lenny, J.	EPA-660/2-74-054
Leonard, J. W.	EPA-670/2-74-002
Leonard, R. P.	EPA-670/2-75-042
Leung, J.	EPA-650/2-74-119b
Levia, J. E.	EPA-660/2-73-026
Levine, S.	EPA-660/3-75-021
Levins, P. L.	EPA-650/2-73-032
Levins, P. L.	EPA-650/2-73-023
Levins, P. L.	EPA-650/2-73-025
Levins, P. L.	EPA-670/2-74-086
Levis, A. H.	EPA-670/2-75-030
Lewellen, W. S.	EPA-600/4-75-016a
Lewellen, W. S.	EPA-600/4-75-016b
Lewis, C. S.	EPA-600/5-73-012d
Lewis, D. H.	EPA-600/5-74-003
Lewis, D. L.	EPA-660/3-75-007
Lewis, P. A.	EPA-670/4-74-006
Lewis, R. F.	EPA-670/9-75-004
Lezenga, D. R.	EPA-660/3-74-028
Li, R. T.	EPA-600/2-75-041
Libby Jr., K.	EPA-670/2-74-044
Lichtenberg, J. J.	EPA-670/4-74-008
Lichtenberg, J. J.	EPA-670/4-74-009
Liebman, J. C.	EPA-670/2-74-036a
Lighthart, B.	EPA-660/3-75-036
Lillard, D. A.	EPA-660/4-75-002
Linstedt, K. D.	EPA-600/9-75-007
Lipper, R. I.	EPA-660/2-75-013
Lippert, T. E.	EPA-670/2-74-017
Lipscomb, W. O.	EPA-650/2-74-058a
Liroff, R. A.	EPA-600/5-74-026
Liroff, R. A.	EPA-600/5-74-025
Liskowitz, J. W.	EPA-670/2-75-002
Little, R. L.	EPA-670/4-74-003a
Liu, B. C.	EPA-600/5-75-016
Liu, B. J. H.	EPA-600/2-75-059
Liu, D. H.	EPA-660/3-75-016
Liu, D. H. W.	EPA-660/2-74-036
Llewellyn, L.	EPA-600/5-73-012a
Locklin, D. W.	EPA-600/2-75-069a
Loehr, R. C.	EPA-660/2-75-019
Loehu, P. Y.	EPA-660/2-74-063
Loop, G. C.	EPA-660/2-75-020
Lotspeich, F. B.	EPA-660/3-75-020
Lotspeich, F. B.	EPA-660/3-74-009
Lovell, H. L.	EPA-670/2-73-093
Lowe, R. L.	EPA-670/4-74-005
Luciani, D.	EPA-600/2-75-012
Ludwig, C. B.	EPA-650/2-73-026
Ludwig, F. L.	EPA-650/3-73-001
Lueck, B. F.	EPA-660/2-73-030
Luecke, D. F.	EPA-600/5-75-001
Lund, D. B.	EPA-660/2-74-006
Lundberg, K. R.	EPA-660/2-75-026
Lunsford, J. H.	EPA-650/3-74-006
Maase, D. L.	EPA-670/2-75-049
Macon, J.	EPA-660/2-74-031
MacDonald, D.	EPA-600/5-75-017
Macintyre, W. G.	EPA-670/2-73-099
Maddaus, W.	EPA-600/2-75-033
Madden, P.	EPA-600/2-75-040
Magee, E. M.	EPA-650/2-74-009k
Magee, E. M.	EPA-650/2-74-009b
Magee, E. M.	EPA-650/2-74-009a
Magee, E. M.	EPA-650/2-74-0091
Maggiolo, A.	EPA-660/2-75-016
Maher, M.	EPA-670/2-74-049
Mahida, V. U.	EPA-670/2-75-010
Maigetter, R. Z.	EPA-650/1-73-002
Maizus, S.	EPA-670/2-75-068
Makrides, A. C.	EPA-600/5-75-002
Makrides, A. C.	EPA-600/5-75-013
Malcolm, D. G.	EPA-600/5-75-017
Malisch, W. R.	EPA-670/2-73-038
Malisch, W. R.	EPA-670/2-75-053
Mallatt, R. C.	EPA-660/2-75-025
Mallove, E.	EPA-600/2-75-054
Manabe, R.	EPA-660/2-73-039
Mancuso, R. L.	EPA-650/3-73-001
Mangarella, P. A.	EPA-670/2-75-065
Manges, H. L.	EPA-660/2-75-013
Manny, E. H.	EPA-600/2-75-053
March, F.	EPA-670/2-75-024
Marcus, H. J.	EPA-660/2-74-036
Margeson, J. H.	EPA-600/4-75-003
Markle, R. A.	EPA-670/2-75-058
Markley, O. W.	EPA-600/5-75-012
Marks, D. H.	EPA-670/2-75-026a
Marks, D. H.	EPA-670/2-75-026b
Marrone, W. A.	EPA-650/2-74-008a
Marshall, D. W.	EPA-670/2-74-076b
Marshall, H. E.	EPA-600/5-74-031
Martel, C. J.	EPA-670/2-74-065
Martin, D. B.	EPA-660/3-75-010
Martin, E. J.	EPA-670/2-74-073
Martin, E. J.	EPA-670/2-74-013
Martin, E. J.	EPA-670/2-75-056
Martin, G. B.	EPA-650/2-73-031
Martin, K. L.	EPA-660/2-73-017
Mason, G. J.	EPA-670/2-74-061
Mason, H. B.	EPA-600/2-75-046
Massaro, E. J.	EPA-660/3-74-027
Massucco, A. A.	EPA-650/2-73-032
Mathur, G. K.	EPA-650/2-74-098a
Matthew, F. L.	EPA-670/2-73-088
Mattson, V. R.	EPA-600/3-75-012
Maudlin, A. F.	EPA-660/2-74-061
Maxwell, M. A.	EPA-650/2-73-038
Mayer Jr., F. L.	EPA-600/3-75-013
Mayer, J. F.	EPA-600/2-75-063
Mayes, J.	EPA-670/2-74-057
Mazzella, G.	EPA-600/2-75-078
McCain, J. D.	EPA-600/2-75-056
McCain, J. D.	EPA-650/2-73-035
McCain, J. D.	EPA-650/2-74-028
McCain, J. D.	EPA-650/2-74-102a
McCall, A. C.	EPA-660/2-73-034

PERSONAL AUTHOR INDEX

McCalla, T. M.	EPA-660/2-75-015
McCann, C.	EPA-650/2-74-038
McCann, R. A.	EPA-650/2-74-011
McCarthy, J. L.	EPA-660/2-74-069
McCauley, B.	EPA-660/9-74-001
McClenny, W. A	EPA-650/2-74-046b
McCoy, J.	EPA-650/2-73-023
McDermott, R. G.	EPA-670/5-73-021
McDonald, H.	EPA-650/2-73-045
McElroy, A. D.	EPA-600/5-75-004
McElroy, F. F.	EPA-600/4-75-010
McElroy, S. W.	EPA-600/5-74-020
McFarlane, J. C.	EPA-680/4-75-006
McGarvey, R. J.	EPA-670/2-74-001
McGlamery, G. G.	EPA-600/2-75-006
McIlhenny, W. F.	EPA-660/3-74-019
McIlhenny, W. F.	EPA-660/3-73-006
McIlheny, W. F.	EPA-660/2-75-021
McIntyre, C.	EPA-670/2-74-015
McKean, W. T.	EPA-650/2-74-005
McKee, H. C.	EPA-660/3-74-026
McKee, M.	EPA-600/5-74-021
McKenna, J. D.	EPA-650/2-74-058a
McKnight, J. S.	EPA-600/2-75-022
McLay, R. W.	EPA-660/3-75-037
McMahon, T. S.	EPA-670/2-74-053
McMichael, W. F.	EPA-670/2-74-011
McMichael, W. F.	EPA-670/2-74-006
McMichael, W. F.	EPA-670/2-74-010
McNabb, J. F.	EPA-660/2-73-014
McNaught, D. C.	EPA-660/3-75-021
McNelis, D. N.	EPA-680/4-74-001
McWhorter, D. B.	EPA-670/2-75-048
Meadows, E. U.	EPA-650/2-73-007
Meakin, J. D.	EPA-650/2-73-016
Medina, M. A.	EPA-670/2-75-022
Medina, M. A.	EPA-670/2-75-017
Mehrle Jr., P. M.	EPA-600/3-75-013
Meier, P. G.	EPA-600/3-75-009
Meier, P. M.	EPA-670/2-74-038
Meier, P. M.	EPA-670/2-74-066
Meier, P. M.	EPA-670/2-74-065
Meier, P. M.	EPA-670/2-74-068
Meiners, A. F.	EPA-670/2-75-057
Meisel, W. S.	EPA-650/4-74-001
Mekinda, M.	EPA-660/2-74-083
Melcher, A. G.	EPA-600/5-75-008
Meloy, T. P.	EPA-670/2-73-068
Melvin, P.	EPA-670/2-75-003
Melvin, P.	EPA-670/2-75-044
Melvin, P.	EPA-670/2-75-059
Mentz, J. W.	EPA-670/2-75-047
Menzies, J. D.	EPA-600/2-75-034
Mercer, B. W.	EPA-670/2-73-078
Mercer, W. A.	EPA-660/2-74-091
Merritt, L. B.	EPA-660/2-75-007
Merryman, L.	EPA-660/2-75-003
Meyer, C. F.	EPA-600/4-73-001b
Meyers, R. A.	EPA-650/2-74-025
Meyers, S. P.	EPA-660/3-75-001
Michalovic, J. G.	EPA-670/2-75-042
Middlebrooks, E. J.	EPA-670/9-75-004
Middleton, W. M.	EPA-600/4-75-007
Miele, R. P.	EPA-600/2-75-047
Mielke, L. N.	EPA-660/2-75-015
Milgrom, J.	EPA-670/5-74-003
Miller Jr., H. H.	EPA-660/2-74-011
Miller, B. F.	EPA-670/2-73-009
Miller, C. J.	EPA-650/5-73-002
Miller, D. W.	EPA-660/2-74-056
Miller, D. W.	EPA-660/3-75-018
Miller, E. C.	EPA-660/2-74-057
Miller, E. L.	EPA-670/2-75-037
Miller, N. T.	EPA-600/2-75-037
Miller, P. D.	EPA-670/2-73-032
Miller, R. H.	EPA-670/2-74-074
Miller, R. L.	EPA-660/2-75-004
Milliman, G. E.	EPA-650/2-74-0091
Mills, T. R.	EPA-660/2-74-071
Miner, J. R.	EPA-660/2-74-009
Miner, J. R.	EPA-660/2-74-023
Miner, J. R.	EPA-670/2-73-025
Minton, G. L.	EPA-670/2-74-061
Mitchell, R. C.	EPA-670/2-73-031
Mitchell, R. I.	EPA-600/4-75-009
Miura, R.	EPA-660/2-74-021
Modell, M.	EPA-600/2-75-063
Moden, D. D.	EPA-600/4-75-015
Moffa, P. E.	EPA-670/2-75-021
Moghissi, A. A.	EPA-680/4-74-001
Mole, J. W.	EPA-670/2-74-036b
Molvar, A. E.	EPA-670/2-73-104
Molvar, A. E.	EPA-670/2-74-087
Monaghan, D. A.	EPA-670/2-74-021
Moomau, H. F.	EPA-670/2-74-002
Moore, D. O.	EPA-650/2-74-012
Moore, J.	EPA-600/5-74-016
Moore, J. G.	EPA-600/5-73-011
Moore, R. V.	EPA-660/2-74-045
Morgan, D. R.	EPA-650/2-74-046a
Morgan, G. B.	EPA-680/4-75-008
Morin, D. C.	EPA-670/2-75-011
Mornea, G. A.	EPA-670/2-74-030
Morris, J. C.	EPA-600/1-75-002
Morrison, D. E.	EPA-600/5-74-011
Morrison, J. E.	EPA-670/2-73-074
Morrison, S. M.	EPA-660/2-73-017
Morrow, J. E.	EPA-660/3-73-018
Mote, L. B.	EPA-600/2-75-045
Moyer, J. E.	EPA-660/2-74-065
Moyer, J. E.	EPA-660/2-74-066
Mrosla, E.	EPA-660/3-75-014
Mudge, L. K.	EPA-670/2-75-014
Mueller, E. W.	EPA-660/3-75-019
Mueller, E. W.	EPA-660/3-75-020
Mueller, H. F.	EPA-670/2-73-029
Mullaney, J. L.	EPA-670/9-75-008
Mullen, K. T.	EPA-600/4-75-001
Mullins, J. W.	EPA-600/4-75-015
Munday, J. C.	EPA-670/2-73-099
Murfee, G.	EPA-660/2-73-025b
Murphy, J. S.	EPA-600/2-74-007
Murphy, J. S.	EPA-600/2-75-005
Murphy, L. S.	EPA-660/2-75-013
Murphy, L. S.	EPA-660/2-75-010
Murphy, T. J.	EPA-600/3-75-005
Murray, R. G.	EPA-600/2-75-009
Murray, R. G.	EPA-600/2-75-070
Mycock, J. C.	EPA-650/2-74-058a
Myers, E.	EPA-660/2-74-016
Myranowski, J. A.	EPA-600/5-74-018
Nack, H.	EPA-650/2-75-038
Nader, J. S.	EPA-650/2-74-013
Nagel, C. A.	EPA-600/2-75-058
Narbozgi, A. D.	EPA-660/2-73-020
Nash, C. E.	EPA-660/3-75-015

PERSONAL AUTHOR INDEX

Nawrocki, M. A.	EPA-600/2-73-002
Nawrocki, M. A.	EPA-660/2-73-035
Nawrocki, M. A.	EPA-660/2-74-071
Nawrocki, M. A.	EPA-660/2-74-073
Nawrocki, M. A.	EPA-660/2-74-072
Neel, J. K.	EPA-660/3-73-001
Neher, M. B.	EPA-660/2-74-048
Nekervis, W. F.	EPA-600/2-75-051
Nelson Jr., A. C.	EPA-650/4-74-005a
Nelson Jr., J. D.	EPA-600/3-75-007
Nelson, D.	EPA-660/2-74-043
Nelson, G. R.	EPA-660/2-74-089
Nelson, O. F.	EPA-670/2-75-019
Nelson, T. P.	EPA-600/2-75-068
Nesbitt, J.	EPA-660/2-74-016
Neshein, E. E.	EPA-670/2-73-088
Neveril, R. B.	EPA-670/2-74-043
Newher, M. B.	EPA-660/2-74-004
Newport, B. D.	EPA-660/2-74-066
Nichols, C. B.	EPA-600/2-75-056
Nilan, R. E.	EPA-600/2-75-074
Nordberg, G.	EPA-600/1-75-004
Norstadt, F. A.	EPA-660/2-75-015
Novotny, J. F.	EPA-660/3-75-010
Nutkis, M. S.	EPA-650/2-74-001
O'Brien, P. J.	EPA-670/2-74-086
O'Connor, D. J.	EPA-660/3-73-009
O'Donnell, J. J.	EPA-650/2-74-098a
O'Farrell, T. P.	EPA-670/2-73-040
O'Grady, T. J.	EPA-670/2-74-091
O'Herron, R. J.	EPA-670/4-73-018
O'Herron, R. J.	EPA-670/4-74-001
O'Herron, R. J.	EPA-670/4-75-005
O'Melia, C. R.	EPA-670/2-74-032
Oberacker, D. A.	EPA-670/2-75-025
Ogea, J.	EPA-660/2-73-018
Ojala, C.	EPA-660/3-74-029
Olsen, M. B.	EPA-600/5-73-012d
Olson, D. T.	EPA-600/3-75-012
Ongerth, R. H.	EPA-670/5-74-005
Oppelt, E. T.	EPA-600/2-75-036
Ottinger, R. S.	EPA-670/2-73-053L
Ottinger, R. S.	EPA-670/2-73-053A
Ottinger, R. S.	EPA-670/2-73-053I
Ottinger, R. S.	EPA-670/2-73-053K
Ottinger, R. S.	EPA-670/2-73-053A-P
Ottinger, R. S.	EPA-670/2-73-053C
Ottinger, R. S.	EPA-670/2-73-053G
Ottinger, R. S.	EPA-670/2-73-053D
Ottinger, R. S.	EPA-670/2-73-053J
Ottinger, R. S.	EPA-670/2-73-053F
Ottinger, R. S.	EPA-670/2-73-053B
Ottinger, R. S.	EPA-670/2-73-053O
Ottinger, R. S.	EPA-670/2-73-053H
Ottinger, R. S.	EPA-670/2-73-053E
Ottinger, R. S.	EPA-670/2-73-053N
Ottinger, R. S.	EPA-670/2-73-053P
Ottinger, R. S.	EPA-670/2-73-053M
Owen, P. H.	EPA-670/2-75-028
Oxley, J. H.	EPA-650/2-75-038
Pade, B.	EPA-660/2-74-083
Page, A. L.	EPA-670/2-74-005
Paik, I.	EPA-600/5-74-020
Pamatmat, M. M.	EPA-660/3-73-005
Pantazelos, T. G.	EPA-670/2-75-004
Paris, D. F.	EPA-660/3-75-007
Park, W. R.	EPA-600/5-74-007
Park, W. R.	EPA-660/2-74-047

Parkasam, T. B. S.	EPA-660/2-74-063
Parker, F. L.	EPA-660/2-73-012
Parker, F. L.	EPA-660/3-75-038
Parker, G. B.	EPA-660/2-74-009
Parker, H. W.	EPA-660/2-74-090
Parker, L. W.	EPA-600/2-75-054
Parkhurst, J. D.	EPA-670/2-73-043
Parkinson, F. E.	EPA-600/2-75-062
Parks, J. W.	EPA-670/2-74-079
Pathak, A. A.	EPA-670/5-74-007
Patmore, L. C.	EPA-660/2-73-003
Patrick, R.	EPA-660/2-75-008
Patterson, J.	EPA-600/2-74-009c
Patterson, J.	EPA-600/2-74-009b
Patterson, J.	EPA-600/2-74-009a
Pattnaik, A.	EPA-650/2-73-016
Patzer, R. G.	EPA-680/4-74-001
Pavia, E. H.	EPA-670/2-73-067
Payne, W. R.	EPA-660/2-74-017
Peabody, F. P.	EPA-660/2-74-057
Pearson, E. F.	EPA-660/2-74-050
Pek, S. L.	EPA-670/2-75-042
Pellizzari, E. D.	EPA-600/2-75-076
Peltz, W. A.	EPA-670/2-75-017
Peltz, W. A.	EPA-670/2-75-022
Pembrook, J. D.	EPA-600/2-75-024
Pembrook, J. D.	EPA-650/2-73-030
Pengidore, D.	EPA-600/2-75-014
Pengidore, D. A.	EPA-650/2-73-028
Penose Jr., R. G.	EPA-670/2-73-081
Penrod, L.	EPA-660/2-74-087
Pepper, J.	EPA-600/5-74-019
Perez, A. I.	EPA-600/5-74-013
Perrotte, W.	EPA-670/2-74-063
Pershing, D. W.	EPA-650/2-73-031
Pershing, D. W.	EPA-650/2-73-029
Peters, A. W.	EPA-660/2-75-025
Peters, E. T.	EPA-650/2-73-023
Petersack, J. F.	EPA-670/2-75-039
Petersen, W. B.	EPA-600/4-75-004
Peterson, H. C.	EPA-670/2-75-016
Peterson, M. L.	EPA-670/2-73-001
Peterson, S.	EPA-660/9-74-002
Peterson, S. A.	EPA-660/3-73-001
Peterson, S. A.	EPA-660/3-74-032
Pfeffer, F. M.	EPA-660/2-74-067
Pfeffer, J. T.	EPA-670/2-74-016
Phillips, J. H.	EPA-660/3-75-013
Phillips, S. A.	EPA-670/2-73-022
Pidot, G.	EPA-600/5-74-027
Pievge, J. D.	EPA-660/2-74-057
Pilcher, K. S.	EPA-660/3-73-020
Pilie, R. J.	EPA-670/2-75-042
Piscator, M.	EPA-600/1-75-004
Pitt, W.	EPA-660/2-74-076
Plyler, E. L.	EPA-650/2-73-038
Poe, G. G.	EPA-600/2-75-046
Pohland, F. G.	EPA-600/2-75-043
Pohland, F. G.	EPA-600/2-75-029
Polcyn, F. C.	EPA-660/3-74-028
Pomeroy, B. S.	EPA-660/2-75-012
Pomeroy, B. S.	EPA-670/2-73-051
Pontuies, U. R.	EPA-670/2-73-067
Porcella, D. B.	EPA-600/5-74-010
Porter, L. K.	EPA-660/2-75-015
Posner, J. C.	EPA-670/2-75-061
Pound, C. E.	EPA-660/2-73-006a
Pound, C. E.	EPA-660/2-73-006b

PERSONAL AUTHOR INDEX

Powers, C. F. EPA-660/3-74-015
Powers, C. F. EPA-660/3-74-032
Powers, J. J. EPA-660/4-75-002
Powers, W. L. EPA-660/2-75-010
Powers, W. L. EPA-660/2-75-013
Paws, B. L. EPA-660/3-73-006
Prescott, G. W. EPA-660/3-74-023
Pressley, T. A. EPA-670/2-73-075
Pressley, T. A. EPA-670/2-73-058
Preston, E. H. EPA-600/5-74-002
Pringer, C. J. EPA-670/2-74-092
Proctor, D. E. EPA-660/2-74-030
Propheter, O. W. EPA-660/2-74-045
Prus-Chacinski, T. M. EPA-600/2-75-062
Purdom, P. W. EPA-670/2-73-057
Putmann, A. A. EPA-650/2-74-011
Putnam, A. A. EPA-600/2-75-073
Putnam, A. A. EPA-600/2-75-067
Pyatt, E. E. EPA-600/5-74-013
Quatier, J. EPA-600/2-75-025
Rabe, F. T. EPA-600/5-75-002
Raben, I EPA-650/2-73-013
Rabes, F. T. EPA-600/5-75-013
Rains, B. A. EPA-670/2-73-098
Rainwater, F. H. EPA-660/2-73-016
Ralls, J. W. EPA-660/2-74-091
Ramanathan, R. EPA-600/5-75-010
Ramm, W. EPA-600/5-75-010
Ramos, E. EPA-660/2-74-074
Ramsey, R. H. EPA-660/2-75-003
Ramsey, R. J. EPA-660/2-74-024
Rao, A. K. EPA-600/2-75-020
Raphael, C. N. EPA-660/3-74-029
Rapp, J. R. EPA-670/2-74-009
Rappaport, A. EPA-600/5-73-012b
Ratsch, H. C. EPA-660/3-74-012
Ratsch, H. C. EPA-660/3-74-018
Rayyan, Fawzi EPA-660/2-73-025a
Reale, R. EPA-600/2-75-037
Rechnitz, G. A. EPA-660/2-74-079
Reding, J. T. EPA-650/2-75-032d
Rees, S. M. EPA-600/2-75-072
Reeves, W. R. EPA-670/2-75-034
Refrancois, P. A. EPA-650/2-74-012
Register, J. W. EPA-650/1-74-003
Reh, C. W. EPA-670/2-75-035
Reichert, P. A. EPA-600/5-73-015
Reid, G. W. EPA-660/2-74-037
Reimers, R. EPA-600/5-74-016
Reiner, R. EPA-650/2-73-009
Reiners, R. S. EPA-600/5-74-005
Remus, G. A. EPA-670/2-74-043
Reuss, J. O. EPA-660/3-75-032
Reyna, R. EPA-600/5-73-012b
Rhee, S. S. EPA-670/2-74-019
Ricciardella, K. A. EPA-670/2-74-001
Rich, S. R. EPA-670/2-75-004
Richardson, D. L. EPA-670/2-74-033
Richardson, D. L. EPA-670/2-74-045
Richardson, S. L. EPA-670/2-75-021
Richardson, W. H. EPA-670/2-75-019
Riley Jr., B. T. EPA-600/2-75-044
Riley, R. G. EPA-660/2-74-081
Ringe, R. R. EPA-660/3-73-017
Rinker, T. L. EPA-600/2-75-055
Riscan, N. J. EPA-660/2-75-021
Roan, S. G. EPA-670/2-73-075
Robbins, G. M. EPA-600/5-74-024
Robbins, J. H. EPA-670/2-74-056
Robert, K. H. EPA-600/1-75-004
Roberts, D. L. EPA-650/2-74-046a
Robertson, A. EPA-660/3-74-006
Robertson, J. EPA-660/2-74-077
Robins, J. D. EPA-670/2-73-054
Robinson, D. EPA-670/2-74-044
Robinson, G. M. L EPA-670/2-74-073
Robinson, J. W. EPA-650/2-73-011
Robinson, S. J. EPA-600/5-75-001
Robson, F. L. EPA-600/2-75-078
Roden III, J. J. EPA-670/2-74-030
Rodriguez, J. EPA-660/2-74-074
Roeber, J. A. EPA-600/2-75-060
Roesler, J. F. EPA-670/2-73-104
Roessler, M. EPA-660/3-74-014
Roessler, W. U. EPA-650/2-73-014
Rogers, C. EPA-670/2-75-005
Rogers, C. J. EPA-670/2-74-088
Rogers, R. D. EPA-600/3-75-014
Romkens, M. J. M. EPA-660/2-74-043
Rosenblatt, T. M. EPA-670/2-74-004
Rosenblum, H. EPA-600/3-75-003a
Rosenblum, H. EPA-600/3-75-003b
Ross, L. W. EPA-670/2-73-080
Roth, C. EPA-660/2-74-043
Rothwell, D. F. EPA-670/2-73-063
Rovesti, W. C. EPA-650/2-73-041
Rowe, M. L. EPA-660/2-75-003
Rowe, M. L. EPA-660/3-75-030
Royal, T. M. EPA-650/2-74-019
Rozelle, R. EPA-670/2-75-006
Rozielle, L. T. EPA-660/2-73-033
Rubin, C. EPA-600/5-73-016
Ruegg, R. T. EPA-600/5-74-031
Ruich, D. A. EPA-600/2-73-004
Ruiz, Jr., L. P. EPA-670/2-75-032
Russell, L. EPA-660/3-75-036
Ruth, L. A. EPA-650/2-74-001
Ryans, B. EPA-650/4-74-002
Ryans, B. EPA-650/4-75-019
Ryans, B. EPA-650/4-75-021
Ryans, B. EPA-650/4-75-022
Ryans, B. EPA-650/4-75-023
Ryland, D. W. EPA-670/4-73-002
Sack, W. A. EPA-670/2-73-022
Sadler, W. W. EPA-670/2-75-035
Sahagian, J. EPA-600/5-74-032
Saigh, P. A. EPA-670/2-75-007
Saila, S. B. EPA-600/3-75-001
Salomon, L. L. EPA-680/4-75-003
Salvin, V. S. EPA-650/3-74-008
Sanborn, H. EPA-660/3-73-005
Sanborn, J. R. EPA-660/3-74-025
Sanders, R. G. EPA-670/2-75-004
Sandoski, D. A. EPA-600/2-74-007
Sandoski, D. A. EPA-600/2-74-005
Sanville, W. D. EPA-660/3-74-032
Sanville, W. D. EPA-660/3-74-015
Sargent, D. H. EPA-600/2-73-004
Sarofim, A. F. EPA-670/2-73-089A
Sarofim, A. F. EPA-670/2-73-089B
Satterfield, C. N. EPA-600/2-75-063
Savino, M. EPA-600/5-73-012e
Saxton, J. C. EPA-670/2-74-078
Sayles, J. H. EPA-660/2-75-016
Schacht, R. A. EPA-660/3-74-002
Schaedel, A. L. EPA-660/3-75-004

PERSONAL AUTHOR INDEX

Schafer, P. H.	EPA-600/5-75-001
Scherifig, J.	EPA-660/3-73-015
Schmalensee, R.	EPA-600/5-75-010
Schmer, F. A.	EPA-670/4-73-002
Schmid, L. A.	EPA-660/2-75-013
Schmidt, C. J.	EPA-660/2-74-075
Schmidt, C. J.	EPA-670/2-75-038
Schmidt, F. A.	EPA-670/2-73-091
Schmidt, R. A.	EPA-600/2-74-002
Schoenberger, R. J.	EPA-670/2-73-057
Schoettger, R. A.	EPA-660/3-75-011
Schoor, W. P.	EPA-660/3-74-013
Schoor, W. P.	EPA-660/3-74-024
Schrag, M. P.	EPA-600/2-75-020
Schreiber, R. J.	EPA-600/2-75-046
Schroeder, E. D.	EPA-660/2-75-002
Schultz, G. R.	EPA-670/9-73-056
Schultz, W.	EPA-670/2-75-045
Schwartz, A. M.	EPA-600/2-74-003
Schwartz, W.	EPA-650/3-74-011
Schweikhardt, R. G.	EPA-670/2-74-024B
Schweikhardt, R. G.	EPA-670/2-74-024A
Scott, P.	EPA-600/5-73-012d
Scott, T. W.	EPA-660/2-74-063
Scotton, J. W.	EPA-600/4-75-001
Seals, R. G.	EPA-600/4-75-015
Searl, T. D.	EPA-650/2-74-0091
Sedita, S. J.	EPA-600/2-75-061
Seidman, H.	EPA-660/2-73-003
Seitz, W. R.	EPA-660/2-73-009
Seitz, W. R.	EPA-660/2-73-007
Selker, A. P.	EPA-650/2-73-005
Selker, A. P.	EPA-650/2-73-005a
Selker, A. P.	EPA-650/2-73-005b
Selleck, R. E.	EPA-660/3-74-016
Sem, G. J.	EPA-650/2-73-022
Seng, W. C	EPA-660/2-73-015
Senturia, S. D.	EPA-670/2-75-040
Sewell, R. J.	EPA-670/2-75-060
Seyler, J. K.	EPA-660/2-73-032
Shafizadeh, F.	EPA-670/2-74-015
Shaheen, D. G.	EPA-600/2-75-004
Shannon, L. J.	EPA-600/2-75-020
Shannon, L. J.	EPA-600/5-74-007
Shareskin, M.	EPA-600/5-74-033
Sharpin, R. E.	EPA-660/2-73-036
Shaw, H.	EPA-650/2-74-001
Shaw, H.	EPA-650/2-74-009a
Shea, T.	EPA-660/2-74-074
Sheikh, H.	EPA-670/2-75-017
Sheikh, H.	EPA-670/2-75-022
Shelley, P. E.	EPA-600/2-75-027
Shelley, P. E.	EPA-600/2-75-065
Shepherd, B. P.	EPA-650/2-75-032d
Sherrill, J. D.	EPA-670/2-75-046
Shiek, L. J.	EPA-600/4-75-005a
Shimabuku, R.	EPA-660/3-75-036
Shimizu, A. B.	EPA-600/2-75-046
Shirazi, M. A.	EPA-660/2-73-016
Shoffstall, D. R.	EPA-650/2-73-033a
Shoffstall, D. R.	EPA-650/2-73-033b
Shofner, F. M.	EPA-660/2-73-011
Sholtes, R. S.	EPA-650/2-73-007
Shuckrow, A. J.	EPA-670/2-73-078
Shuckrow, A. J.	EPA-670/2-75-012
Shuster, W. W.	EPA-670/2-74-063
Sibbett, D. J.	EPA-650/2-73-052
Siderewicz, W.	EPA-660/2-75-019
Silverstein, R. M.	EPA-660/2-74-081
Simon, G. R.	EPA-600/2-75-010
Simpson, J. D.	EPA-600/5-75-007
Simpson, J. P.	EPA-600/2-75-006
Siner, R. D.	EPA-670/5-74-001
Singley, J. E.	EPA-660/2-74-021
Sisson, R. L.	EPA-600/5-74-008
Sitek, G.	EPA-660/2-74-073
Skogerboe, G.	EPA-660/2-74-084
Skogerboe, G. V.	EPA-660/2-74-049
Skogerboe, G. V.	EPA-660/2-74-052
Skogerboe, G. V.	EPA-670/2-75-048
Skogerboe, R. K.	EPA-670/2-75-048
Skrentner, R. G.	EPA-670/2-75-020
Skriba, M. C.	EPA-670/2-74-017
Sliger, A. G.	EPA-650/2-74-012
Smallwood, C.	EPA-660/2-73-021
Smallwood, D.	EPA-600/5-75-010
Smallwood, H.	EPA-600/5-73-003
Smith Jr., L. L.	EPA-660/3-75-017
Smith, C. L.	EPA-670/2-73-099
Smith, C. N.	EPA-660/2-74-017
Smith, D. V.	EPA-600/5-75-001
Smith, F.	EPA-650/4-74-005a
Smith, F. A.	EPA-660/3-73-007
Smith, G. E.	EPA-660/2-74-068
Smith, G. F.	EPA-670/2-75-017
Smith, J.	EPA-660/2-74-037
Smith, J. D.	EPA-670/2-73-076
Smith, J. E.	EPA-670/2-75-021
Smith, J. K.	EPA-670/1-75-001
Smith, J. S.	EPA-650/5-73-002
Smith, K. D.	EPA-650/2-74-007
Smith, R.	EPA-670/2-73-044
Smith, R.	EPA-670/2-73-045
Smith, R.	EPA-670/2-73-046
Smith, R.	EPA-670/2-74-069
Smith, R. E.	EPA-660/2-74-064
Smith, R. G.	EPA-670/2-75-039
Smith, R. J.	EPA-660/2-74-009
Smith, R. M.	EPA-670/2-74-070
Smith, W.	EPA-600/2-75-052
Smith, W. B.	EPA-650/2-74-028
Smith, W. B.	EPA-650/2-74-102a
Smith, W. G.	EPA-670/2-74-040
Smith, W. L.	EPA-660/3-73-001
Smithson Jr., G. R.	EPA-650/2-75-038
Smithson Jr., G. R.	EPA-670/2-75-018
Snedden, R.	EPA-650/2-74-038
Snelling, R. N.	EPA-600/4-75-015
Snowman, L. R.	EPA-650/2-74-046b
Snowman, L. R.	EPA-650/2-74-046a
Snyder, A. J.	EPA-660/2-74-039
Sobek, A.	EPA-670/2-74-070
Solis Jr., F. W.	EPA-670/2-73-029
Sommer, J.	EPA-600/5-74-027
Sopper, W. E.	EPA-660/2-74-016
Sopper, W. E.	EPA-660/2-74-003
Speaker, D. M.	EPA-600/5-74-015
Spealman, M. L.	EPA-600/2-75-038
Speece, R. E.	EPA-660/2-73-025b
Speece, R. E.	EPA-660/2-73-025a
Sperling, R. B.	EPA-600/2-75-077
Spewak, P.	EPA-600/2-75-007
Sproul, O.	EPA-660/2-74-088
Sprulll, E. L.	EPA-660/2-74-008
Squire, G. R.	EPA-660/2-74-071
Staebler Jr., C. J.	EPA-660/2-73-024

PERSONAL AUTHOR INDEX

Stalberg, S.	EPA-600/2-75-021a
Stainaker, C. B.	EPA-660/3-73-019
Stamberg, J. B.	EPA-670/2-73-037
Stamberg, J. B.	EPA-670/2-73-033
Stamberg, J. B.	EPA-670/2-75-052
Stamberg, J. B.	EPA-670/2-75-051
Stanbery, J. B.	EPA-670/2-73-073
Stanland, R.	EPA-600/5-73-015
Starkey, R. J.	EPA-660/3-74-022
Statnick, R. M.	EPA-650/2-74-050
Stay, F. S.	EPA-660/3-74-032
Stefan, H.	EPA-660/3-75-014
Stein, J. L.	EPA-660/2-74-059
Stenhser, A. G.	EPA-660/2-73-010
Stenquist, R. J.	EPA-600/2-75-038
Sternling, C. V.	EPA-650/2-74-017
Stevens, B. H.	EPA-670/5-74-006
Stevens, D. H.	EPA-670/2-73-060
Stevenson, M. K.	EPA-670/2-73-010
Stevenson, W. S.	EPA-660/3-74-004a
Steward, F. A.	EPA-670/2-75-015
Stewart, R. D.	EPA-650/1-73-004
Stewart, S. R.	EPA-670/2-73-086
Stierli, H.	EPA-670/2-73-001
Stinnett, S.	EPA-660/3-75-030
Stoddard, C. K.	EPA-670/2-73-092
Stoermer, E. F.	EPA-660/3-75-004
Stoevener, H. H.	EPA-600/5-74-017
Stone, H. E.	EPA-660/2-74-092
Stone, R.	EPA-600/5-73-003
Stone, R.	EPA-670/2-74-095a
Stone, R.	EPA-670/2-74-095b
Stone, R. B.	EPA-600/2-75-040
Streebin, L. E.	EPA-660/2-74-037
Streiff, M. L.	EPA-650/2-73-026
Streiter, S.	EPA-600/5-75-007
Strom, A.	EPA-670/2-75-045
Stucky, D. J.	EPA-670/2-74-050
Sturrock, T.	EPA-660/3-74-007
Sullivan, R. H.	EPA-600/2-75-062
Sullivan, R. H.	EPA-670/2-74-039
Sullivan, R. H.	EPA-670/2-74-026
Sumark, L.	EPA-600/5-73-016
Summerfelt, R. C.	EPA-660/2-74-046
Summers, C. H.	EPA-670/2-74-086
Surprenant, N.	EPA-600/5-74-032
Sutton, J. W.	EPA-660/2-73-018
Sutton, W. W.	EPA-680/4-75-003
Swaezy, R. M.	EPA-660/2-74-090
Swain, H.	EPA-670/2-75-006
Swanson, J. W.	EPA-660/2-74-029
Swanson, N. P.	EPA-660/2-75-015
Sweeny, K. H.	EPA-660/2-74-036
Swink, D.	EPA-600/9-75-002
Sybert, L.	EPA-650/2-73-013
Sybert, L.	EPA-650/2-74-010
Sylvester, J. R.	EPA-660/3-75-015
Szabo, A. J.	EPA-660/2-74-061
Takenaka, H. H.	EPA-600/2-75-047
Talley, R. J.	EPA-670/5-74-005
Tam, S. S.	EPA-650/2-75-038
Tang, J. Y.	EPA-650/3-73-002
Taras, M. J.	EPA-660/2-73-020
Taraxi, D. S.	EPA-660/3-74-026
Tardiff, R. G.	EPA-670/9-75-008
Tarzynski, J.	EPA-670/2-75-002
Tate, D. C.	EPA-660/2-73-019
Taub, F. B.	EPA-660/3-73-008
Taylor, C. E.	EPA-660/2-74-001
Taylor, J.	EPA-660/2-74-084
Taylor, J. H.	EPA-660/2-74-052
Taylor, W. J.	EPA-660/2-74-001
Teske, M.	EPA-600/4-75-016a
Teske, M.	EPA-600/4-75-016b
Tessier, T. L.	EPA-660/2-74-056
Teuschler, J. M.	EPA-670/4-75-002
Thackston, E. L.	EPA-660/3-75-002
Thaxton, E. L.	EPA-660/2-74-085
Thibodeaux, L. J.	EPA-660/2-74-044
Thomann, R. V.	EPA-660/3-73-009
Thomann, R. V.	EPA-660/3-75-005
Thomas Jr., J.	EPA-650/2-73-044
Thomas, C. R.	EPA-670/2-74-073
Thomas, J. L.	EPA-660/2-74-014
Thomas, J. W.	EPA-660/2-74-057
Thomas, R. E.	EPA-650/4-74-021
Thomas, R. E.	EPA-650/4-74-022
Thomas, R. E.	EPA-660/2-74-062
Thomas, R. E.	EPA-660/2-74-087
Thomas, T. J.	EPA-600/2-75-073
Thompson, C. G.	EPA-660/2-75-006
Thompson, R. S.	EPA-650/4-74-008
Thompson, V. L.	EPA-600/4-75-010
Thorhaug, A.	EPA-660/3-74-003
Thornton, W. E.	EPA-660/2-73-032
Thurnau, R. C.	EPA-670/2-75-025
Thurow, C.	EPA-600/5-75-005
Tibbs, J. F.	EPA-660/3-74-023
Tichenor, B. A.	EPA-660/2-73-016
Tifft, Jr., E. C.	EPA-670/2-75-021
Tihansky, D. P.	EPA-600/5-73-001
Tillery, J. B.	EPA-650/1-74-003
Tilton, B.	EPA-650/2-73-053
Tilton, B.	EPA-650/2-74-015
Tilton, B.	EPA-650/4-75-025
Timpe, W. G.	EPA-660/2-75-004
Tinsley, C. H.	EPA-660/3-74-004a
Todd, D. K.	EPA-600/4-74-001
Tomlinson, S. V.	EPA-600/2-75-006
Tommerdahl, J. B.	EPA-650/2-74-019
Toner, W.	EPA-600/5-75-005
Torpey, W. N.	EPA-670/2-73-027
Torstrick, R. L.	EPA-600/2-75-006
Toussaint, G. R.	EPA-660/2-74-077
Trentacoste, N. P.	EPA-670/2-75-066
Trihey, P. T.	EPA-660/2-75-026
Tripler Jr., A. B.	EPA-670/2-75-018
Troxler, R. W.	EPA-660/3-75-002
Truett, B.	EPA-600/2-75-070
Truett, D. B.	EPA-600/2-75-007
Truett, J. B.	EPA-650/2-74-030
Trzyna, T. C.	EPA-600/5-74-023
Trzyna, T. C.	EPA-600/5-74-006
Tsai, C.	EPA-660/3-75-038
Tsang, P.	EPA-650/2-74-006
Tucker, U. C.	EPA-650/2-73-027
Tulumello, A.	EPA-670/2-74-087
Tulumello, A.	EPA-670/2-75-067
Turner, D. S.	EPA-660/3-74-029
Turner, J. H.	EPA-650/2-73-012
Tuwiner, S. B.	EPA-660/2-74-035
Uchida, S.	EPA-650/2-73-003
Ulmer, N. S.	EPA-670/2-74-007
Ung, R. F.	EPA-670/2-74-018
Unger, S. G.	EPA-600/5-73-008a

PERSONAL AUTHOR INDEX

Unger, S. G.	EPA-600/5-74-028
Upham, J. B.	EPA-650/3-74-008
Ure, J. E.	EPA-600/2-75-062
Usinowicz, P. J.	EPA-670/2-74-012
Uttormark, P. D.	EPA-660/3-74-020
Uttormark, P. D.	EPA-660/3-73-023
Uttormark, P. D.	EPA-660/3-75-033
Valentine, J. R.	EPA-650/2-73-032
Vallee, R. P.	EPA-670/2-74-076b
Vallee, R. P.	EPA-670/2-74-076a
Van der Leeden, F.	EPA-660/3-75-018
Van Beek, J. L.	EPA-600/5-75-006
Van Dam, D.	EPA-670/2-73-103
Van Der Leeden, F.	EPA-600/4-73-001a
Van Winkle, M.	EPA-600/5-73-012c
Vandergrift, A. E.	EPA-670/2-74-048
Vasan, K. S.	EPA-670/5-74-008
Vaughan, D. A.	EPA-670/2-73-032
Vaughan, D. A.	EPA-670/2-75-058
Veith, G. D.	EPA-660/3-75-022
Vennes, J.	EPA-660/2-74-088
Vick, N. J.	EPA-670/5-74-001
Viets, F. G.	EPA-660/2-75-015
Vivian, J. E.	EPA-650/2-73-047
Vlastelicia, J.	EPA-660/3-73-014
Vogh, R. P.	EPA-660/2-74-055
Waddell, T. E.	EPA-600/5-74-012
Wade, R. C.	EPA-650/2-73-052
Wagner, J. J.	EPA-600/5-75-001
Wagoner, D. E.	EPA-650/4-74-005a
Wahl, J. A.	EPA-650/2-74-008a
Wakeland, J. R.	EPA-600/5-73-012c
Waldron, A. C.	EPA-660/2-74-032
Walker, J. M.	EPA-600/2-75-034
Walker, W. R.	EPA-660/2-74-052
Walker, W. R.	EPA-660/2-74-049
Walker, W. R.	EPA-660/2-74-084
Wall, J. P.	EPA-660/3-75-033
Wallace, J. B.	EPA-660/3-73-016
Wallbridge, C. T.	EPA-600/3-75-012
Waller, R.	EPA-670/2-74-097
Wallingford, G. W.	EPA-660/2-75-010
Wallman, H.	EPA-670/2-74-071
Wallon, D. V.	EPA-600/2-75-074
Waltz, F. A.	EPA-670/4-73-002
Wang, S. C.	EPA-650/2-74-010
Wapner, M.	EPA-600/3-75-008
Warg, J. B.	EPA-670/2-75-047
Warner, B. E.	EPA-600/2-75-028
Warner, D. L.	EPA-680/4-74-003
Warner, D. L.	EPA-680/4-75-008
Warner, M.	EPA-600/5-74-002
Warner, M.	EPA-600/5-74-016
Warner, W. K.	EPA-600/5-74-011
Wasser, J. H.	EPA-650/2-74-003
Wasser, J. U.	EPA-650/2-73-029
Wathne, M.	EPA-670/2-74-035a
Watkins, S. W.	EPA-660/2-73-028
Watson Jr., W. D.	EPA-600/5-73-014
Watt, T. R.	EPA-670/2-75-020
Webb, R. G.	EPA-660/4-75-003
Weber Jr., W. J.	EPA-670/2-75-061
Weber Jr., W. J.	EPA-670/2-74-047
Weber Jr., W. J.	EPA-670/2-74-012
Weber, A. H.	EPA-600/4-75-004
Weber, C. I.	EPA-670/4-73-001
Weet, J. H.	EPA-670/2-75-015
Weinberg, E. K.	EPA-650/2-73-014
Weinburg, M. S.	EPA-670/2-73-062
Weinstein, M. J.	EPA-670/2-74-052
Weisberg, H.	EPA-670/2-74-044
Weiss, A. H.	EPA-670/2-75-031
Weiss, B.	EPA-670/2-73-049
Welborn, H. L.	EPA-670/2-74-075
Welsh, F. L.	EPA-670/2-74-050
Wen, C. Y.	EPA-600/2-75-023
Wen, C. Y.	EPA-650/2-73-003
Wendt, J. O.	EPA-650/2-74-017
Wendt, J. O. L.	EPA-600/2-75-075
Wezernak, C. T.	EPA-660/3-74-028
Wheeler, R. J.	EPA-650/2-74-068
Whitacre, G. R.	EPA-650/2-74-011
White, J. E.	EPA-660/2-74-027
White, J. T.	EPA-660/2-75-001
White, R. K.	EPA-600/2-75-009
White, U. M.	EPA-650/2-73-014
White, W.	EPA-650/2-73-017
Whiting, D.	EPA-660/2-75-018
Whitman, J.	EPA-600/4-75-001
Whitmore, F. J.	EPA-650/4-73-003
Wickersham, K.	EPA-600/5-75-008
Wilcox, E. A.	EPA-670/2-73-042
Wiley, A. J.	EPA-660/2-73-030
Wilkins, G. C.	EPA-600/2-75-042
Will, L. A.	EPA-660/2-75-012
Williams, D.	EPA-650/2-73-050
Williams, E. R.	EPA-600/5-73-013
Williams, R.	EPA-600/2-75-012
Wilmoth, R. C.	EPA-670/2-73-100
Wilmoth, R. C.	EPA-670/2-74-051
Wilson, D. F.	EPA-660/2-75-028
Wilson, D. G.	EPA-670/2-75-040
Wilson, J. R.	EPA-660/2-75-028
Wilson, K. D.	EPA-670/2-75-063
Winfield, R. P.	EPA-660/3-75-005
Winiarski, L.	EPA-660/2-73-001
Winkler, P. F.	EPA-670/2-74-031
Winkler, W.	EPA-600/5-75-015
Wirtanen, W. T.	EPA-660/2-73-036
Wise, R. H.	EPA-670/2-74-034
Wise, R. H.	EPA-670/2-74-046
Wixon, B. G.	EPA-670/2-75-053
Wixson, B. G.	EPA-670/2-73-038
Wolcott, A. R.	EPA-660/2-74-057
Wolk, R. H.	EPA-650/2-73-041
Wolk, R. H.	EPA-670/2-73-066
Wood, A. L.	EPA-660/2-75-009
Woodward, J. B.	EPA-670/2-74-054
Wren, E. J.	EPA-670/2-73-021
Wymore, A. H.	EPA-660/2-74-027
Yaffe, H. J.	EPA-670/5-74-009
Yanagida, N.	EPA-660/2-74-053
Yang, P. Y.	EPA-660/2-74-063
Yin, S. C.	EPA-660/2-74-046
Young, J. F.	EPA-600/2-75-006
Youngblood, S. B.	EPA-600/2-75-046
Yousef, Y. A.	EPA-670/2-74-072
Yung, S.	EPA-650/2-74-119b
Zachar, F. R.	EPA-670/2-74-002
Zada, F. K.	EPA-650/2-75-057i
Zada, F. K.	EPA-650/2-75-057k
Zada, F. K.	EPA-650/2-75-057h
Zada, F. K.	EPA-650/2-75-057e
Zadick, F. J.	EPA-600/2-75-038
Zakely, B. J.	EPA-660/2-74-049

PERSONAL AUTHOR INDEX

Zall, R. R.	EPA-660/2-75-019
Zandi, I.	EPA-670/2-73-072
Zaval, F. J.	EPA-670/2-74-003
Zeitoun, M. A.	EPA-660/2-75-021
Ziegler, R. C.	EPA-670/2-75-042
Zimmerman, J. R.	EPA-650/4-74-008
Zippler, K. L.	EPA-670/2-73-071
Zoller, M. A.	EPA-600/5-73-012c

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER
INDEX

PROJECT NO.	REPORT NO.
CONTRACTS	
CPA 70-40	650/4-75-016
CPA-70-114	600/2-75-057
CPE-70-129	670/2-73-010
DACW 37-74-C-00	670/2-75-050a
DACW 37-74-C-00	670/2-75-050b
DACW 37-74-C-00	670/2-75-050c
DACW 37-74-C-00	670/2-75-050d
DACW 37-74-C-00	670/2-75-050e
DACW 37-74-C-00	670/2-75-050f
DACW 37-74-C-00	670/2-75-050g
EHS 70-108	670/2-74-092
GS-03S-38351	600/5-73-013
PH 22-68-67	650/2-75-047
10-12-0007	650/1-74-005
10-12-0019	650/2-74-001
10-12-0023	650/2-73-022
10-12-0040	650/4-74-027
10-12-0049	650/4-73-002
10-12-0061	650/2-74-077
10-12-0088	650/2-74-012
10-12-0134	650/1-74-006
10-12-0143	650/2-74-024
10-12-0162	650/2-74-022
10-12-0166	650/2-74-132
12-12-0097	650/1-74-001
12-12-0139	650/2-74-053
14-12-0024	660/2-74-050
14-12-0024	670/2-74-050
14-12-0168	670/2-74-048
14-12-0179	670/2-73-076
14-12-0494	670/2-75-002
14-12-0505	670/2-73-047a
14-12-0813	670/2-73-062
14-12-0818	660/2-73-033
14-12-0818	670/2-73-033
14-12-0818	670/2-73-037
14-12-0818	670/2-73-040
14-12-0818	670/2-73-058
14-12-0818	670/2-73-070
14-12-0818	670/2-73-073
14-12-0818	670/2-73-075
14-12-0820	670/2-74-025
14-12-0824	670/2-74-074
14-12-0831	670/2-75-009
14-12-0833	660/2-74-076
14-12-0846	670/2-73-042
14-12-0909	600/2-73-002
CONTRACTS	
14-12-0922	660/2-74-036
14-12-150	600/2-75-047
22-68-0002	650/3-74-008
22-69-0064	650/3-73-001
22-69-108	650/4-75-002
24-12-0004	650/2-74-084
24-12-0015	650/2-73-049
24-12-0025	650/2-73-024
24-12-0027	650/2-73-023
24-12-0045	650/2-74-017
35-12-0067	650/2-73-013
35-12-0067	650/2-74-010
43-12-0142	650/1-74-007
5-03-3516	600/2-75-044
68-01-0040	670/2-75-028
68-01-0041	670/2-74-071
68-01-0042	600/2-75-061
68-01-0067	670/2-73-084
68-01-0068	670/2-73-068
68-01-0076	660/3-73-006
68-01-0082	670/4-74-004
68-01-0094	670/2-74-017
68-01-0095	670/2-74-004
68-01-0098	670/2-75-057
68-01-0110	670/2-75-042
68-01-0115	670/2-74-091
68-01-0116	670/2-74-043
68-01-0120	670/2-73-031
68-01-0124	670/2-73-078
68-01-0133	670/2-74-053
68-01-0135	670/2-73-081
68-01-0139	670/2-73-069
68-01-0162	600/2-75-034
68-01-0162	670/2-75-051
68-01-0162	670/2-75-052
68-01-0167	660/2-73-003
68-01-0171	660/2-73-004
68-01-0177	670/2-75-068
68-01-0190	660/3-75-016
68-01-0195	670/2-74-001
68-01-0197	600/2-75-004
68-01-0276	650/3-74-002
68-01-0279	650/2-73-002
68-01-0423	600/5-74-017
68-01-0426	600/5-74-009
68-01-0428	600/5-74-007
68-01-0438	600/2-74-004

CONTRACTS

PROJECT NO.	REPORT NO.
68-01-0457	600/2-74-006
68-01-0465	670/2-75-047
68-01-0470	600/5-73-004
68-01-0483	600/2-74-002
68-01-0483	600/2-75-009
68-01-0550	650/2-74-068
68-01-0666	650/1-73-002
68-01-0703	600/5-74-004
68-01-0728	600/5-74-010
68-01-0729	600/5-73-003
68-01-0741	660/2-73-006a
68-01-0741	660/2-73-006b
68-01-0743	660/2-74-072
68-01-0743	660/2-74-073
68-01-0744	600/5-73-008a
68-01-0744	600/5-73-008b
68-01-0744	600/5-74-014
68-01-0753	600/5-73-005
68-01-0759	600/4-73-001a
68-01-0759	600/4-73-001b
68-01-0759	600/4-74-001
68-01-0759	680/4-74-002
68-01-0759	680/4-74-003
68-01-0759	680/4-75-008
68-01-0763	670/2-74-002
68-01-0777	660/2-74-056
68-01-0782	660/3-74-019
68-01-0788	600/5-74-008
68-01-0887	660/2-74-013
68-01-0901	600/5-75-011
68-01-0904	660/3-74-022
68-01-1231	650/3-75-007
68-01-1325	600/2-75-022
68-01-1805	600/5-74-001
68-01-1818	600/5-74-006
68-01-1818	600/5-74-023
68-01-1832	670/4-74-003a
68-01-1832	670/4-74-003b
68-01-1837	600/5-74-005
68-01-1842	600/5-74-019
68-01-1845	600/5-75-006
68-01-1850	600/5-74-033
68-01-1859	600/5-74-032
68-01-1863	600/5-75-004
68-01-1870	670/2-74-052
68-01-1871	600/5-74-002
68-01-1871	600/5-74-016

CONTRACTS

PROJECT NO.	REPORT NO.
68-01-1882	600/5-74-030
68-01-1888	600/5-74-018
68-01-1898	600/5-74-015
68-01-2114	600/2-74-001
68-01-2203	600/5-74-025
68-01-2203	600/5-74-026
68-01-2221	600/2-75-011
68-01-2232	600/5-75-015
68-01-2250	600/5-75-007
68-01-2411	600/5-75-001
68-01-2442	600/4-75-001
68-01-2637	600/5-74-028
68-01-2940	600/2-75-070
68-02-0007	650/2-74-064
68-02-0010	650/4-74-037
68-02-0017	650/2-74-047
68-02-0018	650/2-73-047
68-02-0020	650/2-73-026
68-02-0022	650/2-73-015
68-02-0023	650/2-75-006
68-02-0025	650/2-74-085a
68-02-0054	650/2-73-027
68-02-0080	650/1-73-004
68-02-0083	650/1-75-001
68-02-0095	650/5-73-001
68-02-0204	600/2-75-016
68-02-0205	650/2-73-001
68-02-0206	650/2-73-042
68-02-0213	650/5-73-002
68-02-0214	650/4-74-014
68-02-0216	650/2-73-033a
68-02-0216	650/2-73-033b
68-02-0217	650/2-73-048a
68-02-0217	650/2-73-048b
68-02-0217	650/2-73-048c
68-02-0217	650/2-73-048d
68-02-0218	650/2-74-105
68-02-0221	650/2-75-052
68-02-0223	650/4-73-001
68-02-0226	650/2-74-131
68-02-0227	650/2-74-066
68-02-0228	650/2-74-107
68-02-0230	650/2-74-026
68-02-0230	650/2-74-087
68-02-0246	650/2-74-054
68-02-0247	650/2-74-071a
68-02-0247	650/2-74-071b

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0250	650/2-74-075
68-02-0251	600/2-75-069a
68-02-0256	650/2-73-036
68-02-0264	650/2-73-005
68-02-0265	650/2-75-037
68-02-0268	650/2-75-009
68-02-0270	650/2-74-045
68-02-0272	650/4-74-003
68-02-0273	650/2-73-035
68-02-0273	650/2-74-102
68-02-0273	650/2-74-102a
68-02-0273	650/2-75-022
68-02-0277	650/2-73-004
68-02-0279	650/2-73-003
68-02-0281	650/4-75-018a
68-02-0281	650/4-75-018b
68-02-0284	650/2-74-074
68-02-0284	650/2-74-092
68-02-0285	650/2-74-093
68-02-0286	650/2-74-004
68-02-0287	650/3-74-004a
68-02-0293	650/2-73-041
68-02-0293	650/2-73-041a
68-02-0297	650/2-75-045
68-02-0300	650/2-73-039
68-02-0300	650/2-74-109
68-02-0307	650/2-73-043
68-02-0310	650/4-74-015
68-02-0329	650/1-73-003
68-02-0332	650/2-74-061
68-02-0335	650/4-74-012
68-02-0542	600/1-75-005
68-02-0543	650/2-73-037
68-02-0544	650/2-73-016
68-02-0545	650/2-74-040
68-02-0546	650/2-74-029
68-02-0551	650/2-73-010
68-02-0553	650/4-73-003
68-02-0556	650/9-75-001a
68-02-0556	650/9-75-001b
68-02-0557	650/3-73-002
68-02-0561	650/2-73-025
68-02-0563	650/2-74-014
68-02-0564	650/2-73-050
68-02-0566	650/2-74-044
68-02-0570	650/2-73-040
68-02-0574	650/4-74-009
68-02-0575	650/2-74-094
68-02-0578	650/2-73-052
68-02-0579	650/2-74-016
68-02-0580	650/4-74-011
68-02-0580	650/4-74-040
68-02-0580	650/4-75-026
68-02-0581	650/2-74-060
68-02-0584	650/2-75-015
68-02-0585	650/2-73-032
68-02-0586	650/1-75-005
68-02-0587	650/2-73-030
68-02-0588	650/2-73-008
68-02-0590	650/2-74-039
68-02-0591	650/2-74-133
68-02-0592	650/2-75-013a
68-02-0595	650/1-74-003
68-02-0600	650/2-73-007
68-02-0603	650/2-74-031a
68-02-0603	650/2-74-031b
68-02-0605	650/2-75-027a
68-02-0605	650/2-75-027b
68-02-0605	650/2-75-027c
68-02-0609	650/2-75-051a
68-02-0622	650/2-73-028
68-02-0623	650/4-74-013
68-02-0623	650/4-74-021
68-02-0623	650/4-74-024
68-02-0623	650/4-74-025
68-02-0625	650/2-74-103
68-02-0626	650/4-74-022
68-02-0626	650/4-74-026
68-02-0626	650/4-74-028
68-02-0626	650/4-74-029
68-02-0626	650/4-74-033
68-02-0626	650/4-74-039
68-02-0626	650/4-75-003
68-02-0626	650/4-75-009
68-02-0628	650/2-74-023
68-02-0629	650/2-74-009a
68-02-0629	650/2-74-009b
68-02-0629	650/2-74-009c
68-02-0629	650/2-74-009d
68-02-0629	650/2-74-009e
68-02-0629	650/2-74-009f
68-02-0629	650/2-74-009g
68-02-0629	650/2-74-009h
68-02-0629	650/2-74-009i

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0629	650/2-74-009j
68-02-0629	650/2-74-009k
68-02-0629	650/2-74-0091
68-02-0630	650/2-74-076
68-02-0634	650/2-74-002a
68-02-0634	650/2-74-002b
68-02-0636	600/2-75-012
68-02-0636	650/2-75-020
68-02-0637	650/2-74-119a
68-02-0637	650/2-74-119b
68-02-0647	650/2-74-025
68-02-0647	650/2-74-025a
68-02-0648	650/2-75-001a
68-02-0648	650/2-75-001b
68-02-0650	600/2-75-037
68-02-0650	650/2-74-062
68-02-0650	650/2-74-062a
68-02-0652	650/4-74-020
68-02-0653	650/2-74-069
68-02-0654	650/4-74-017
68-02-0656	650/2-74-020
68-02-0657	650/2-74-006
68-02-0658	650/2-73-009
68-02-0660	650/2-75-008
68-02-0662	650/2-74-008a
68-02-0665	650/4-74-049
68-02-0680	650/4-74-010
68-02-0698	650/2-75-068
68-02-0699	650/4-75-005
68-02-0713	650/1-74-013
68-02-0716	650/2-74-055
68-02-0742	650/2-74-089
68-02-0744	650/4-75-014
68-02-0745	650/4-74-042
68-02-0752	600/4-75-009
68-02-0757	650/2-74-046a
68-02-0757	650/2-74-046b
68-02-0760	650/4-74-051
68-02-0771	650/3-75-004
68-02-0778	650/2-74-056
68-02-0782	650/2-74-065
68-02-0788	650/4-74-052
68-02-0792	650/3-75-010
68-02-0798	650/4-74-036
68-02-0800	650/4-74-044
68-02-0994	650/4-74-038
68-02-1010	650/2-74-037a

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1011	650/2-74-019
68-02-1013	650/2-75-031
68-02-1015	650/4-74-007
68-02-1068	650/2-74-106
68-02-1074	650/2-74-078a
68-02-1075	650/2-75-059
68-02-1079	650/2-74-108
68-02-1081	650/3-75-009
68-02-1082	600/2-75-018
68-02-1092	650/2-75-061a
68-02-1093	650/2-74-058
68-02-1093	650/2-74-058a
68-02-1098	650/4-74-023
68-02-1098	650/4-75-001
68-02-1099	600/2-75-078
68-02-1145	650/1-74-009
68-02-1201	650/2-75-050
68-02-1206	650/4-75-008
68-02-1207	650/4-74-001
68-02-1208	650/2-75-041
68-02-1209	650/2-75-039
68-02-1210	600/1-75-004
68-02-1210	650/2-75-049
68-02-1217	650/3-75-002
68-02-1223	600/2-75-067
68-02-1224	650/2-75-069
68-02-1225	650/2-74-059
68-02-1227	600/2-75-024
68-02-1228	600/2-75-076
68-02-1228	650/2-74-121
68-02-1229	650/2-74-120
68-02-1230	650/2-75-056
68-02-1233	650/4-74-043
68-02-1234	650/4-74-005a
68-02-1234	650/4-74-005b
68-02-1234	650/4-74-005c
68-02-1234	650/4-74-005d
68-02-1234	650/4-74-005h
68-02-1234	650/4-74-0051
68-02-1234	650/4-74-005m
68-02-1235	650/4-74-050
68-02-1236	650/2-75-055
68-02-1238	650/4-74-006
68-02-1242	650/4-74-016
68-02-1255	650/2-75-007
68-02-1266	650/1-75-004
68-02-1268	650/2-75-029

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1274	650/1-74-008
68-02-1275	600/2-75-048
68-02-1277	650/1-75-002
68-02-1279	650/2-75-054
68-02-1282	650/2-75-028
68-02-1292	650/2-75-053a
68-02-1292	650/2-75-053b
68-02-1302	600/2-75-051
68-02-1303	600/2-75-015
68-02-1303	600/2-75-017
68-02-1303	650/2-74-079
68-02-1303	650/2-74-114
68-02-1303	650/2-74-124
68-02-1306	650/2-74-085b
68-02-1306	650/2-74-086a
68-02-1306	650/2-74-086b
68-02-1308	600/2-75-056
68-02-1308	650/2-74-028
68-02-1308	650/2-74-072
68-02-1308	650/2-74-098
68-02-1308	650/2-74-098a
68-02-1308	650/2-74-116
68-02-1308	650/2-74-127
68-02-1308	650/2-74-130
68-02-1308	650/2-75-016
68-02-1308	650/2-75-017
68-02-1308	650/2-75-030
68-02-1308	650/2-75-033
68-02-1309	650/2-75-018
68-02-1310	600/4-75-016a
68-02-1310	600/4-75-016b
68-02-1310	650/4-74-035
68-02-1314	650/2-75-042
68-02-1316	600/2-75-054
68-02-1316	650/2-74-036
68-02-1316	650/2-74-043
68-02-1316	650/2-74-082a
68-02-1318	600/2-75-046
68-02-1318	650/2-74-091
68-02-1318	650/2-74-123
68-02-1319	600/2-75-042
68-02-1319	600/2-75-068
68-02-1319	650/2-74-033
68-02-1319	650/2-75-065
68-02-1320	600/2-75-045
68-02-1320	650/2-74-021
68-02-1320	650/2-74-041
68-02-1320	650/2-74-082
68-02-1320	650/2-74-117
68-02-1320	650/2-75-019a
68-02-1320	650/2-75-046
68-02-1321	650/2-74-101
68-02-1321	650/2-74-115
68-02-1321	650/2-74-122
68-02-1321	650/2-75-057a
68-02-1321	650/2-75-057b
68-02-1321	650/2-75-057c
68-02-1321	650/2-75-057d
68-02-1321	650/2-75-057e
68-02-1321	650/2-75-057f
68-02-1321	650/2-75-057g
68-02-1321	650/2-75-057h
68-02-1321	650/2-75-057i
68-02-1321	650/2-75-057j
68-02-1321	650/2-75-057k
68-02-1323	600/2-75-066
68-02-1323	600/2-75-073
68-02-1323	650/2-74-052
68-02-1323	650/2-74-099
68-02-1323	650/2-74-100
68-02-1323	650/2-75-034
68-02-1323	650/2-75-038
68-02-1324	600/2-75-020
68-02-1324	650/2-74-073
68-02-1324	650/2-75-044
68-02-1324	650/2-75-066
68-02-1325	650/2-74-097
68-02-1325	650/2-74-118
68-02-1325	650/2-75-021
68-02-1328	600/2-75-021a
68-02-1328	650/2-74-112
68-02-1329	650/2-75-032a
68-02-1329	650/2-75-032b
68-02-1329	650/2-75-032c
68-02-1329	650/2-75-032d
68-02-1339	650/2-74-067
68-02-1348	650/2-74-090
68-02-1352	650/2-74-030
68-02-1353	650/2-74-088
68-02-1363	650/4-74-019a
68-02-1363	650/4-74-046
68-02-1363	650/4-75-011
68-02-1363	650/4-75-013
68-02-1364	600/2-75-014

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1365	650/2-75-060
68-02-1367	650/2-73-005a
68-02-1367	650/2-73-005b
68-02-1406	650/2-75-026a
68-02-1406	650/2-75-026b
68-02-1436	650/2-75-035
68-02-1438	600/2-75-013a
68-02-1439	650/2-75-064
68-02-1480	650/2-74-129
68-02-1480	650/2-74-129a
68-02-1487	650/2-75-024a
68-02-1496	650/2-75-058a
68-02-1722	600/2-75-053
68-02-1740	650/4-75-024a
68-02-1740	650/4-75-024b
68-02-1752	650/2-75-062
68-02-1753	600/3-75-003a
68-02-1753	600/3-75-003b
68-02-1773	600/2-75-077
68-02-1792	600/2-75-052
68-02-1802	600/2-75-074
68-02-1808	650/2-75-040
68-02-1814	600/2-75-050
68-02-1833	600/4-75-005a
68-02-1851	650/2-75-005a
68-02-1851	650/2-75-005b
68-02-1973	650/2-73-045
68-02-2012	650/2-73-044
68-02-2323	650/2-75-063
68-03-0006	670/2-73-052
68-03-0032	670/2-73-014
68-03-0032	670/2-73-015
68-03-0032	670/2-73-016
68-03-0046	670/2-73-013
68-03-0047	670/5-74-003
68-03-0049	670/2-73-006
68-03-0050	670/2-73-066
68-03-0060	670/2-73-056
68-03-0089	670/2-73-053A
68-03-0089	670/2-73-053A-P
68-03-0089	670/2-73-053B
68-03-0089	670/2-73-053C
68-03-0089	670/2-73-053D
68-03-0089	670/2-73-053E
68-03-0089	670/2-73-053F
68-03-0089	670/2-73-053G
68-03-0089	670/2-73-053H

PROJECT NO.	REPORT NO.
CONTRACTS	
68-03-0089	670/2-73-053I
68-03-0089	670/2-73-053J
68-03-0089	670/2-73-053K
68-03-0089	670/2-73-053L
68-03-0089	670/2-73-053M
68-03-0089	670/2-73-053N
68-03-0089	670/2-73-053O
68-03-0089	670/2-73-053P
68-03-0095	670/2-74-019
68-03-0095	670/2-74-020
68-03-0095	670/2-74-021
68-03-0102	670/2-75-045
68-03-0123	670/2-75-024
68-03-0126	670/1-75-001
68-03-0128	670/2-75-023
68-03-0138	670/2-74-078
68-03-0140	670/2-75-049
68-03-0145	670/2-75-014
68-03-0148	670/2-75-038
68-03-0152	600/2-75-035
68-03-0154	670/2-74-033
68-03-0154	670/2-74-045
68-03-0154	670/2-74-086
68-03-0156	670/2-73-086
68-03-0179	670/2-74-040
68-03-0183	670/2-74-037
68-03-0183	670/2-74-038
68-03-0183	670/2-74-065
68-03-0183	670/2-74-066
68-03-0183	670/2-74-068
68-03-0193	670/5-75-001
68-03-0203	670/2-75-012
68-03-0220	670/2-74-056
68-03-0221	670/2-75-007
68-03-0228	670/2-75-004
68-03-0233	660/2-73-026
68-03-0244	670/2-74-095a
68-03-0244	670/2-74-095b
68-03-0260	670/2-74-082
68-03-0262	670/2-74-087
68-03-0262	670/2-75-067
68-03-0268	670/2-74-003
68-03-0272	600/2-75-062
68-03-0272	670/2-75-011
68-03-0283	670/2-74-039
68-03-0286	600/2-75-041
68-03-0288	660/3-75-024

PROJECT NO.	REPORT NO.
CONTRACTS	
68-03-0298	660/3-75-018
68-03-0327	670/2-75-066
68-03-0334	600/2-75-038
68-03-0409	600/2-75-065
68-03-0426	600/2-75-027
68-03-0439	660/3-75-037
68-03-0470	600/2-75-040
68-03-2052	600/3-75-011
68-03-2136	660/2-75-011
GRANTS	
AP 01186	650/3-74-003
AP-01269-02	650/2-74-005
EC-00281	670/9-73-035
EC-0030-03	670/2-73-089A
EC-0030-03	670/2-73-089B
EC-00600	670/5-74-002
EP-00242	670/2-74-027
EP-00248	670/2-73-023
EP-00250	670/2-73-063
EP-00254	670/2-73-085
EP-00257	670/2-73-065
EP-00259	670/2-73-072
EP-00261	670/2-73-048
EP-00262-02	670/2-73-009
EP-00265	670/2-73-083
EP-00266	670/2-73-039
EP-00268	670/2-73-061
EP-00274	670/2-73-090
EP-00276-04	670/2-73-005
EP-00279	670/2-73-011
EP-00283	670/2-73-025
EP-00302	670/2-73-051
EP-00304	670/2-73-087
EP-00316	670/2-73-041
EP-00319	670/2-73-034
EP-00328	670/2-73-095
EP-00329	660/2-73-038
EP-00329	670/2-73-038
EP-00329	670/2-75-053
EP-00362	670/2-73-030
EP-00386	670/2-73-049
EP-00393	670/2-73-021
EP-00458	670/5-73-020
EP-00458	670/5-74-001
EP-00500-01	670/2-74-014
EP-00829-01	660/2-74-081
EP-01030	670/5-74-006

PROJECT NO.	REPORT NO.
GRANTS	
P5-01-1805	600/1-75-002
UI-00509	670/2-73-057
UI-00557	670/2-73-017
WP 01351-01	660/3-74-014
WP-01322-02	670/2-73-027
WPD 184-01-67	660/2-74-030
WPD-112-01-66	670/2-75-054
WPRD 121-01-68	670/2-73-024
WPRD 139-01-68	600/2-75-060
WPRD 16-01-67	670/2-75-037
WPRD 185-01-68	660/2-73-015
WPRD 23-01-68	670/2-73-098
WPRD 242-01	670/2-73-092
WPRD 247-01	670/2-74-061
WPRD 3-01-68	660/2-74-035
WPRD 30-01-0067	670/2-73-096
WPRD 4-01-67	670/2-74-077
WPRD 4-01-67	670/2-75-027
11010 DYO	670/2-75-060
11010 ELP	670/2-73-024
11010 ENK	670/2-73-103
11010 EZQ	670/2-73-098
11010 FAC	600/2-75-049
11010 FLQ	670/2-73-050
11010 FYM	670/2-73-033
11010 GWI	600/2-73-004
11020 FAM	670/2-74-079
11020 FAN	670/2-73-071
11020 FAU	600/2-75-071
11020 FAX	670/2-75-020
11022 ELK	670/2-74-022
11022 FLV	670/2-75-035
11023 EKC	670/2-75-019
11023 FAR	670/2-75-010
11023 FAS	670/2-73-067
11024 EVF	600/2-73-002
11030 HJP	670/2-74-096
11060 DRO	660/2-73-038
11060 FRQ	600/2-75-030
11060 GVT	670/2-74-062
12010 DNF	660/2-74-050
12010 DOT	670/2-74-059
12010 DRH	660/2-73-033
12010 DSA	670/2-74-042
12010 FNM	660/2-73-032
12010 FXD	670/2-75-018
12010 GUG	600/2-75-028

GRANTS

PROJECT NO.	REPORT NO.
12020 ERM	670/2-74-044
12040 DEH	660/2-74-069
12040 DRY	660/2-74-008
12040 EJU	660/2-75-004
12040 GQD	660/2-73-028
12040 HDU	660/2-74-086
12050 GTR	660/2-75-020
12060 DFF	660/2-74-027
12060 DQV	660/2-73-015
12060 EGV	660/2-74-031
12060 EIG	660/2-74-088
12060 EKQ	660/2-74-012
12060 ESC	660/2-74-093
12060 ESY	660/2-74-035
12060 FAK	660/2-74-028
12060 FLL	660/2-74-014
12060 FRW	660/2-73-020
12060 FRW	660/2-73-021
12060 FYG	660/2-74-060
12060 HCW	660/2-74-059
12060 HFY	660/2-74-092
12060 HNG	660/2-74-046
12060 HPC	660/2-75-002
12070 HEK	660/2-73-023
12080 GCH	660/2-74-040
12090 HLO	660/2-74-039
12110 GLP	660/2-73-018
12120 FYV	660/2-73-037
12120 GLE	660/2-74-007
12120 HMZ	660/2-75-006
12130 DBF	660/2-73-010
12130 EKK	660/2-74-020
12130 HFX	660/2-73-036
12130 HRA	660/2-74-055
13020 DTV	660/2-74-005
13020 DWH	660/2-74-033
13020 EBL	660/2-74-032
13040 DFN	660/2-74-030
13040 ERR	660/2-74-009
13040 EVM	660/2-74-047
13040 FYK	660/2-74-057
14010 EFJ	670/2-73-092
14010 EFL	670/2-73-054
14010 EFN	670/2-73-093
14010 HQC	670/2-74-009
14020 EHW	660/2-74-019
14020 FVW	660/2-74-037
14040 FVD	660/2-74-018
14040 FZC	670/2-73-080
15010 PBK	670/2-73-088
15020 HKQ	670/2-74-063
15030 FMZ	660/2-73-035
15030 HIX	660/2-74-043
15080 EJQ	670/2-73-099
15080 HET	670/2-73-068
16010 DBU	660/3-74-034
16010 DCK	660/3-73-002
16010 DFI	660/3-73-001
16010 DHN	660/3-73-003
16010 EDJ	660/3-73-006
16010 EJH	660/3-73-015
16010 ELF	660/3-74-017
16010 EQQ	660/2-74-010
16020 DHD	670/2-73-079
16020 EDG	660/2-74-021
16020 EGG	660/3-74-026
16020 GIY	670/4-74-004
16030 ELZ	660/2-73-027
16040 FRL	660/2-73-008
16050 DDK	660/3-73-009
16050 DIL	660/2-74-082
16050 DIL	660/2-74-083
16050 DIL	660/3-73-011
16050 DXM	660/3-73-008
16050 ESP	660/3-74-002
16050 GQQ	660/3-73-025
16070 DEP	660/3-74-004a
16070 DEP	660/3-74-004b
16070 DGO	660/3-75-025
16070 DGY	660/3-73-010
16070 EKZ	660/3-73-005
16070 FBY	660/2-73-029
16080 DYJ	660/2-74-016
16080 FBH	660/2-73-022
16080 FWE	600/2-74-003
16080 FYW	660/2-73-025a
16080 FYW	660/2-73-025b
16100 FWQ	660/3-73-018
16100 PAK	660/2-73-017
16110 GEW	600/5-74-013
16130 FDQ	660/2-73-012
16130 GNK	660/2-73-011
16130 GSD	660/2-73-003
16130 HKK	660/2-73-004

PROJECT NO.	REPORT NO.
GRANTS	
17010 EBM	670/2-73-027
17020 EPF	670/2-74-012
17030 DMA	670/2-73-074
17030 DUW	670/2-74-047
17030 EBH	600/2-75-039
17040 DSR	670/2-74-077
17050 DBI	670/2-74-018
17050 DFJ	600/2-75-032
17050 EEY	670/2-74-048
17060 DNU	670/2-73-029
17060 EYZ	670/2-73-082
17070 HDA	670/2-74-004
17080 FSF	670/2-73-064
17080 HHV	670/2-74-080
18050 DET	660/3-74-003
18050 DFQ	660/3-73-016
18050 DIJ	660/3-73-020
18050 DMB	660/3-73-017
18050 DPL	660/3-73-019
18050 ELT	660/3-74-006
18050 FLS	660/3-73-004
18080 DFU	660/3-74-014
18080 FBW	660/3-74-031
800042	650/2-75-002
800055	660/2-73-032
800055	670/2-73-032
800055	670/2-74-083
800055	670/2-74-084
800150	650/2-74-034
800209	650/3-75-005
800250	660/2-74-091
800261	660/2-73-019
800278	660/2-74-052
800278	660/2-74-084
800294	660/2-75-014
800312	660/2-75-017
800316	650/2-74-110
800351	670/2-74-032
800354	600/2-75-029
800356	670/2-75-039
800364	660/2-75-009
800365	660/3-75-013
800369	660/3-73-009
800373	660/3-74-016
800397	650/4-74-032
800397	650/4-74-045a
800397	650/4-74-045b

PROJECT NO.	REPORT NO.
GRANTS	
800400	660/2-74-005
800401	660/2-74-033
800426	660/2-74-049
800432	670/2-75-033a
800432	670/2-75-033b
800432	670/2-75-033c
800432	670/2-75-033d
800435	660/3-75-014
800504	660/3-75-027
800510	660/3-73-022
800536	660/3-75-021
800602	670/2-74-030
800605	660/3-75-004
800608	660/3-75-022
800609	660/3-75-006
800610	660/3-75-005
800613	660/2-73-012
800613	660/2-74-085
800613	660/3-75-002
800613	660/3-75-038
800650	670/2-74-013
800650	670/2-75-056
800652	670/2-74-015
800662	600/4-75-004
800662	650/4-75-015
800674	670/5-74-004
800677	650/3-75-003
800678	660/2-74-003
800680	660/2-73-024
800685	670/2-73-060
800688	670/2-75-031
800704	660/3-75-017
800707	670/2-73-022
800731	660/2-75-008
800736	660/3-74-025
800745	670/2-74-070
800746	660/2-74-046
800747	660/2-74-025
800766	660/2-75-021
800766	670/2-74-016
800767	660/2-74-063
800769	670/2-74-075
800778	660/3-74-028
800781	600/2-75-023
800786	670/2-75-040
800798	600/2-75-019
800842	650/2-74-011

PROJECT NO.	REPORT NO.
GRANTS	
800845	650/3-75-006
800853	660/2-74-029
800854	660/2-74-071
800857	600/2-74-009a
800857	600/2-74-009b
800857	600/2-74-009c
800866	650/2-73-011
800869	650/2-75-067
800897	600/2-75-063
800904	660/2-74-061
800909	660/2-74-004
800916	650/3-75-011
800921	660/2-74-048
800923	660/2-75-013
800935	660/2-74-074
800938	670/2-75-030
800941	670/2-75-046
800943	660/2-74-053
800949	650/3-75-008
800950	650/2-74-095
800966	670/2-74-049
800989	660/3-74-027
800991	660/2-74-079
800994	660/3-74-033
800997	660/2-73-002
801000	600/5-74-022
801003	660/3-75-003
801029	660/2-73-027
801036	660/3-74-007
801039	660/3-73-018
801040	660/2-75-005
801041	600/2-75-072
801062	660/3-74-029
801065	660/2-74-090
801113	650/4-75-012
801120	650/4-74-004
801124-03	660/3-75-026
801136	650/3-74-006
801159	670/2-74-057
801174	650/3-74-011
801192	600/2-75-055
801207	660/2-73-030
801226	600/5-74-027
801234	600/5-74-011
801236	670/2-75-006
801282	670/2-74-076a
801282	670/2-74-076b

PROJECT NO.	REPORT NO.
GRANTS	
801289	670/2-74-035a
801289	670/2-74-035b
801289	670/2-74-036a
801289	670/2-74-036b
801303	670/2-73-091
801321	650/2-73-020
801336	650/2-75-036
801340	650/3-74-007
801342	670/2-74-031
801343	660/3-74-020
801349	670/2-75-016
801361	660/3-73-023
801362	660/3-73-024
801363	660/3-75-033
801374	600/5-73-016
801376	600/5-73-015
801381	660/3-75-030
801393	650/1-74-010
801397	600/2-75-043
801400	660/2-75-007
801411	600/5-74-020
801417	660/2-74-077
801419	600/5-75-003
801432	660/2-75-001
801446	650/2-74-007
801454	660/2-75-003
801454-01	660/2-74-024
801470	650/1-74-012
801473	600/5-73-012a
801473	600/5-73-012b
801473	600/5-73-012c
801473	600/5-73-012d
801473	600/5-73-012e
801481	600/5-74-029
801484	660/2-74-006
801490	650/2-73-014
801500	600/5-74-024
801521	600/5-73-007
801522	600/5-73-011
801577	660/2-74-094
801603	650/2-74-063
801615	650/2-74-027
801622	670/2-75-034
801628	600/2-74-005
801630	670/2-74-094
801633	670/2-75-026a
801633	670/2-75-026b

PROJECT NO.	REPORT NO.
GRANTS	
801647	660/2-74-034
801650	650/1-74-011
801658	670/2-73-043
801662	660/2-74-064
801666	660/2-74-068
801673	600/5-75-010
801677	670/2-74-024A
801678	670/2-74-024B
801684	660/2-74-075
801799	670/2-75-061
801799	670/2-75-062
801799	670/2-75-063
801799	670/2-75-064
801830	670/2-74-073
801835	660/2-74-054
801867	660/2-75-027
801870	670/5-74-007
801870	670/5-74-008
801870	670/5-74-009
801872	670/2-75-043
801876	660/2-74-044
801944	670/2-75-032
801945	650/4-74-041
802003	600/2-75-031
802005	650/1-74-002
802009-01	660/2-74-023
802032	660/2-74-011
802043	650/1-75-003
802084	660/2-75-028
802113	670/2-75-055
802168	660/2-75-026
802174	660/2-75-019
802204	600/2-75-075
802205	660/2-75-012
802219	670/2-74-026
802219	670/2-75-022
802254	670/2-73-104
802254	670/2-74-008
802269	650/2-74-080
802270	650/2-74-051
802291	650/2-74-048
802310	600/2-75-007
802348	660/3-75-015
802366	650/2-75-012
802400	670/2-75-021
802402	650/2-74-032
802411	670/2-75-017

PROJECT NO.	REPORT NO.
GRANTS	
802419-01	650/2-74-096
802423	600/5-75-008
802424	600/2-75-025
802441	600/5-73-009
802443	600/5-75-005
802443	600/5-75-009
802444	600/5-74-021
802475	670/2-74-054
802495	670/4-74-005
802499-01	650/2-75-023
802575	600/5-75-017
802586	660/2-75-016
802614	670/2-74-023
802621	670/2-75-048
802637	670/2-75-015
802647	600/3-75-005
802716	670/2-75-041
802726	650/2-75-043
802781	600/2-75-033
802836	600/5-75-018
802926	600/2-74-008
802980-01	660/4-75-002
803021	660/2-75-010
803026	660/2-75-025
803046-01	600/2-75-005
803049-01	600/5-75-016
803055-01-0	600/2-75-058
803056	600/5-75-012
803063	670/2-75-044
803063	670/2-75-059
803063-01	670/2-75-003
803069	670/2-75-065
803107-01	600/9-75-006
803111	670/2-75-058
803226-01	670/2-75-029
803294	670/9-75-004
803546	600/9-75-007
803556-01	600/2-75-059
803729	600/9-75-005
820529-01	600/3-75-007
INTER-AGENCY	
IAG D4-F451	660/2-75-018
IAG D4-0446	660/2-75-015
IAG-D4-F399	600/2-75-064
IAG-D4-0344	600/4-75-002
IAG-D4-0377	650/2-75-048
IAG-D4-0454	650/2-75-011

PROJECT NO.	REPORT NO.
INTER-AGENCY	
IAG-0153 (D)	600/3-75-013
IAG-097 (D)	650/2-75-014
IAG-134 (D)	600/2-75-006
IAG-141 (D)	660/3-75-011
IAG-148	600/5-75-013
IAG-148 (D)	600/5-75-002
IAG-152 (D)	660/3-75-010
IAG-323	650/3-74-005
IAG0020 (D)	650/2-74-038
IAG0077 (D)	650/2-74-113
IAG0085 (D)	650/2-73-006
IAG0134 (D)	650/2-73-051
IAG0139 (D)	650/2-74-070
IAG0149 (D)	650/2-74-104
IAG0177 (D)	650/2-73-034
IAG0199 (D)	650/2-74-057
IAG0215	650/2-74-125
IAG085 (D)	650/2-75-004
IAG31990A	650/2-74-049A
IAG4H374 (D)	600/5-74-031
IAG40377 (D)	650/4-74-030
TV-30541A	650/2-73-019A
TV-30541A	650/2-73-019B
TV-30541A	650/2-73-019C

☆ U. S. GOVERNMENT PRINTING OFFICE : 1978 634-911/308